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THE CUT OF THE SCYTHE

A thesis presented to the Faculty of the U. S. Army Command and General Staff College in partial fulfillment of the requirements for the degree

MASTER OF MILITARY ART AND SCIENCE

by

Florian K. Rothbrust, MAJ, USA B. A., University of Santa Clara, 1976



Fort Leavenworth, Kansas 1988

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| Bc. ADDRESS (City, State, and ZIP Code)  | <u> </u>  | 10. SOURCE OF F   | INDING NUMBER       | <del></del>                  |  |
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| 3a. TYPE OF REPORT 13b. TIME C<br>flaster's Thesis FROM <u>8-1</u>                                       | <u>987 ro 6-1988</u>                                    | 1988 Ju           | ne 3                |                              | 72                                     |
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# 19. ABSTRACT (Continued)

This narrative recounts the operational history of XIXth Panzer Corps' advance from 10 to 15 May 1940. Its primary focus is directed at the breakthrough at Sedan. The political and military situations influencing the decision makers of the German Army General Staff and the development of the campaign plan are analyzed in an attempt to provide an understanding for the rationale of the mission, deployment, and employment of XIXth Panzer Corps and its subordinate units. A discussion of Field Marshal Erich von Manstein's recommendations and operational concept clarifies his instrumental role in the development of the final campaign plan. Traffic control, Special Operations Forces, and innovative Aerial Resupply concepts are investigated for their fusion into the Air Land Battle concept of this mobile warfare operation. This narrative furnishes a complete account of the daily operations of XIXth Panzer Corps' leaders, men, and equipment. It provides a unique observation of the corps' staff in its daily evaluation of the operational situation, intelligence reports, the logistic situation, and an endless friction with the next higher headquarters. Lastly, this narrative demonstrates the effectiveness of a well trained, equipped armored corps, commanded by leaders who are fully cognizant of their mission, the commanders aim, and the overall operational concept.

This thesis concludes that the remarkable German victories of 1939-1940, and especially XIXth Panzer Corps' advance through the Ardennes, were only possible because of a tremendously dedicated officer corps at the helm of the Army General Staff and in every key position within the field army. These officers were the product of a fierce competitive atmosphere, enabling only the cream of the crop to survive, and thus producing a military culture feeding on "efficiency mania."



# THE CUT OF THE SCYTHE

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# MASTER OF MILITARY ART AND SCIENCE

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The opinions and conclusions expressed herein are those of the student author and not necessarily represent the views of the U. S. Army Command and General Staff College or any other governmental agency.

# ABSTRACT

THE CUT OF THE SCYTHE: A historical narrative of XIXth Panzer Corps' advance through the Ardennes in May 1940, by Major Florian K. Rothbrust, USA, 272 pages.

This narrative recounts the operational history of XIXth Panzer Corps' advance from 10 to 15 May 1940. Its primary focus is directed at the breakthrough at Sedan. The political and military situations influencing the decision makers of the German Army General Staff and the development of the campaign plan are analyzed in an attempt to provide an understanding for the rationals of the mission, deployment, and employment of XIXth Panzer Corps and its subordinate units. A discussion of Field Marshal Erich von Manstein's recommendations and operational concept clarifies his instrumental role in the development of the final campaign plan. Traffic control, Special Operations Forces, and innovative Aerial Resupply concepts are investigated for their fusion into the Air Land Battle concept of this mobile warfare operation. This narrative furnishes a complete account of the daily operations of XIXth Panzer Corps' leaders, men, and equipment. It provides a unique observation of the corps' staff in its daily evaluation of the operational situation, intelligence reports, the logistic situation, and an endless friction with the next higher heedquarters. Lastly, this narrative demonstrates the effectiveness of a well trained, equipped armored corps, commanded by leaders who are fully cognizant of their mission, the commanders aim, and the overall operational concept.

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# **ACKNOWLEDGEMENTS**

I would like to acknowledge the staff of the Combined Arms Research Library at Fort Leavenworth for their tremendous assistance during this thesis project.

I would also like to thank Dr. Samuel Lewis, without whose continued encouragement, invaluable assistance, and plain old advise I might have never finished this project. Thank you for all your help.

To my wife Gabriella, and daughter Mary-Karola, I must express my sincere appreciation for their support throughout the past nine months. They spent the "best year of their life" at Fort Leavenworth, unselfishly sacrificing innumerable hours of family time which can not be made up.

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# CHAPTER ONE

# INTRODUCTION

"Da liegen die Wuerfel des ungeheuren Spiels. Wer wagt sie zu werfen?"
Oswald Spengler
in "Jahre der Entscheidung" 1932/33

This narrative recounts the operational history of the XIXth Panzer Corps' advance from May 10 to 15, 1940. It encompasses campaign planning at German Army High Command, the preparation for the Army's offensive against France, and the employment of an armored corps as main effort through the Ardennes, although its primary focus is directed at XIXth Panzer Corps' breakthrough at Sedan. The political and military situation influencing the decision makers of the German Army General Staff planners and the development of the campaign plan are analyzed in an attempt to provide an understanding for the rationale of the deployment, mission, and employment of XIXth Panzer Corps and its subordinate units. An appraisal of German Army reforms at the conclusion of the Polish campaign furnishes an appreciation for the immense effort required to train and prepare the Army for the French campaign. A discussion of Field Marshal Erich von Manstein's recommendations and operational concept clarifies his instrumental role in the development of the final campaign plan. This narrative also presents an indepth explanation of the development of Panzer Group von Kleist's traffic control plan and the coordination problems involved in the movement of a tank army through the restricted terrain of the Ardennes. The operational history of the XIXth Panzer Corps includes its formation, the headquarter's planning and preparation, and its detailed actions throughout the initial critical days of the offensive to demonstrate its impact on the successful conclusion of the campaign. A complete account of the daily operations furnishes an assessment of XIXth Panzer Corps' officers, men, and equipment. It

provides an observation of the corps' staff in its daily evaluation of the operational and logistic situation, intelligence reports, and an endless friction with the next higher headquarters. The examination of Special Operations Forces, air assault forces, anti aircraft elements, and engineers during planning and execution, demonstrates their critical requirement to achieve success. Lastly, this narrative demonstrates the effectiveness of a well trained, equipped armored corps, commanded by leaders who are fully cognizant of their mission, the commanders aim, and the overall operational concept.

# **BACKGROUND**

On September 3, 1939, the German Army assumed a defensive posture along the Western Front. 1 Germany once again found itself in a two front war, worse yet, war with Poland, France, and England. The professional military elite hoped that Hitler would solve the situation in the West through peaceful means, primarily, because they felt Germany was unprepared for war against the Allies, and secondly, no plan existed for an offensive against France. Adolf Hitler, the German dictator, however, had different ideas. His Wehrmacht Adjutant, Colonel Rudolf Schmudt2, discussed the Fuehrer's desire for a quick attack on France with Nicolaus v. Below3, Hitler's Luftwaffe Adjutant, as early as September 8, 1939. Throughout the following days Hitler brought up the subject of a possible attack on France, but only within his trusted inner circle. After Germany's stunning defeat of Poland Hitler determined that France and England would reconsider before engaging the German army on the battlefield.4

Hitler, with clear intentions for future operations in the West, returned from the Eastern Front with his entourage to Berlin's Stettiner railway station on the afternoon of September 26, 1939 rather unobtrusively. He returned a day early for a scheduled meeting with the three

service chiefs, the Oberbefehlshaber dæ Heeres (ObdH)5 Colonel-General Walter von Brauchitsch6, the Oberbefehlshaber der Luftwaffe (ObdL) Field Marshal Hermann Goering7, and the Oberbefehlshaber der Marine (ObdM) Admiral Erich Ræder8, at the New Chancellory at 1700 hours on September 27, 1939. During this meeting, Hitler for the first time officially expressed his plans for offensive action in the West.9

Rumors of a pending attack against France had already filtered to and been discussed by members of the various service staffs. Hitler, aware of Oberkommerals as Heeres' (OKH)10 opposition to any offensive action in the West used this opportunity to reaffirm his absolute power over all matters of state, including the military. The purpose of his meeting was to present his intentions and to underscore his theory that victory in Poland resulted from superior German leadership, soldiers, tanks, and airplanes. France and England, he explained were unable to come to Poland's aide because of military unpreparedness. Given enough time, however, they might be able to prepare themselves for a German onslaught. Worse yet, they themselves might attack Germany. Hitler declared that the minimal losses the German army suffered in Poland would be easily replaceable. He demanded the immediate activation and transfer of as many units as possible to the Western Front. Hitler thought an offensive in the West would be no more difficult than the Polish campaign, therefore quality soldiers were of no concern. Weather, because of its effect in the first three to four days of any offensive, concerned him most. Hitler also expressed concern over Germany's industrial base, the Ruhr Yalley. He feared Allied bombing raids on this highly vulnerable area. 13

Hitler recognized his generals' sensitivity toward breaching Dutch and Belgian neutrality, and assured them that a conflict with Holland would be avoided since this problem could be solved through political means. Belgium, on the other hand, posed a direct threat to the Ruhr. The

Fuehrer expected no hesitation from France in moving troops into Belgium, using it as a staging base to threaten Germany's industrial base. He expected German forces to attack in a west-northwest direction through Belgium, with the main effort (Schwerpunkt)14 directed towards the channel coast. Hitler asked General von Brauchitsch, for his views on this proposition. Von Brauchitsch declined an immediate reply until afforded some time to think about these new developments. Finally on the 27th, Hitler presented his military leaders with a "fait accompli", demanding the initiation of an offensive not later than 20 to 25 October 1939, the war goal of which was "to farce England to it's knees". Hitler, usurping his advisors, declared his military aims, which were not final in the overall concept of warfare in the West, however, left no fillusions as to his motives. 15

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This amazing order marked the beginning of a great stalling maneuver by OKH, since it had no intention of fighting the West and, unlike 1914, possessed no war plan for an offensive. This plan would truly be a challenge of enormous magnitude for the leaders of the Army General Staff. General v. Brauchitsch and General of Artillery Franz Halder 16 struggled with personal conflicts as to the soldierly and moral implications of Hitler's motives in the West, even going so far as to discuss the possible elimination of the dictator. You Brauchitsch and Halder were soldiers of the old school, however, bound by their oath of allegiance, 17 caught in a dilemma of having to plan an operation they felt morally wrong, probasionally questionable, and possibly ruinous for Germany. General v. Brauchitsch attempted to stand up to Hitler, however, found himself in a very awkward position. He had accepted 250,000 Reichs Mark in form of a loan arranged by Hitler to settle his first marriage and recently remarried a woman with ties to the Nazi movement. General Halder's religious convictions, among other things, restrained him from committing cold blooded murder. As Army Chief of Staff, Halder considered himself the chief representative of the German officer corps, refusing to adopt Balkan traditions into the corps to

solve national problems. Murdaring heads of state was not an option as long as he served as Army Chief of Staff. 18

While von Brauchitsch and Halder privately discussed their concerns over Hitler's reckless intentions, the Polish campaign presented the General Staff with issues of far reaching consequences. It revealed significant German Army deficiencies requiring immediate attention. Among other things, military leaders at the highest levels measured the German infantry far below the standards of 1914. All offensive action depended on commanders' initiatives, since the infantry seemingly lacked elan and an aggressive spirit. The Army considered the Panzer types Mark I and II obsolete, but experienced a shortage of the modern Mark III's and IV's. Its doctrine of mobile warfare received a positive rating, although, Tables of Organization and Equipment (TO&E) required numerous changes, and command and control between Panzer and infantry formations left much to be desired. The September 27 "fail accompli" was a rude shock for Army leaders and in this air of misgiving OKH began to plan for an attack it did not want to conduct, against an enemy it felt it was not ready or equipped to fight, in the rain of Autumn. 19

# **END NOTES**

# **CHAPTER ONE**

<sup>1</sup>Hons-Adolf Jecobsen, *Fall Gelb; Der Kampf um den Deutschen Operationsplan zur Wissenfiensing 1940* (Wiesbeden: Franz Steiner Verlag GMBH, 1957), p. 9.

2Rudolf Schmundt was born on August 13, 1896, in Metz. He entered the 35th Rifle Regiment in 1914 and leter obtained General Staff training. Schmundt replaced Hossbach as Hitler's army adjutant in 1938, serving in this position until seriously wounded during the assessination attempt on Hitler on July 20, 1944. In 1942 he assumed the additional role of Chief, Army Personnel Office. General of the Infantry, Rudolf Schmundt died from his wounds on October 10, 1944, in a field hospital at Ratzeburg. Wolf Keilig, Des Deutsche Heer (Bad Neuheim: Podzun Yerlag, 1957), p. 301.

3Nicolaus v. Below attempted to enter infanteria Regiment Nr. 12 (Halberstadt) as an officer candidate in 1925, but was rejected because of slight shortsightedness. An uncle, General (retired) Otto v. Below, provided assistance and Nicolaus joined the training battalion of the Regiment in April 1926. To his dismay, before completing basic training, Nicolaus and 19 of his comrades were sent to the Deutsche Verkehrsfliegerschule (Germen Commercial Pilot School) in Schleissheim. Below, demonstrated a talent for aviation, thus the Reichsheer transferred him to Lipezk, USSR, for pilot training from May to September 1929. He returned to Infanteria Regiment 12, on October 1, 1929, serving in the regiment until separating from the Reichsheer on July 1, 1933, to enter the secret Luftwaffe. On June 16, 1937 he assumed the duties as Hitler's Luftwaffe side-de-camp, remaining in the position until the conclusion of the war. Nicolaus v. Below became one of Hitler's most trusted adjutants, with whom he discussed many details of the previous years. Nicolaus v. Below, Als Hitler's Adjutant 1937-1945 (Mainz: v. Hese & Koehler Yerlag, 1980), pp. 13-14, 431.

4Nicolaus v. Below, up cit., pp. 210-211.

5Oberbefehlshaber des Heeres; Supreme Commander of the Army. Colonel-General Freiherr von Fritsch occupied the position from 1934 until 1938, thereafter Feldmarschall Walter v. Breuchitsch until December 1941, when Hitler personally assumed command of the Army. Baron Werner von Fritsch was born in Bernrath near Duesseldorf on August 4, 1880 He joined the Hessian Light Field Artillery Regiment Nr. 25 on September 21, 1898, Early on young Fritsch earned himself a posting to the Kriegsakedemie, or Staff College. During World War I, he served on the General Staff and as General Staff officer (operations) of the First Guards Division. After the war he remained in the Reichsheer commanding an Artillery regiment, a Cavalry division, and an Infantry division. Concomitantly with his promotion to General of the Artillery, he assumed the position of Chef der Heeresleitung (Chief of Staff, Army) on February 1, 1934. Fritsch became ObdH during the reorganization of the Armed Forces in 1935 and was promoted to Colonel-General in 1936. Accused a homosexual, Baron von Fritsch resigned from the Army in 1938. Subsequently exhonerated by a military Court of Honor, Fritsch was not reinstated as ObdH, but merely made honoray Colonel of Artillery Regiment Nr. 12. General Fritsch, not called to active duty when wer broke out in 1939, elected to join his artillery regiment in Poland. Baron Werner von Fritsch died a soldiers death while leading a reconneissance patrol in Poland on September 22, 1939. He is credited with the organized expansion of the German Army from 1934 through 1938. Keilig, ap cit., p. 43; F. W. von Mellenthin, German Generals of World War // As / Saw Them (Norman: University of Oklahoma Press, 1977), pp. 3-4; also see Adolf Graf von Kielmansegg's book, Der Fritsch Process (Hamburg, 1949)

6Waiter von Brauchitsch was born in Berlin on October 4, 1881. After serving as a cadet, he became an officer in the 3rd Prussian Guard Regiment. Originally an infantry officer, he later transferred to the Artillery. During the First World War he earned a reputation as a capable officer. In 1932 he became inspector of Artillery, and in 1935 Commander of Wehrkreis I. In early February 1938, Hitler chose him as Fritsch's successor for the position of ObdH. He was promoted to the rank of Field Marshal on July 19, 1940. After being replaced by Hitler in 1941, he saw no further service in the German army. Fieldmarshall Brauchitsch died in Hamburg, in 1948. Keilig, *op cit.*, pp. 91; F. W. von Mellenthin, *op cit.*, pp. 16–17, Lewis, *op cit.*, p. 18; and Below, *op cit.*, p. 65–73.

7Hermann Wilhelm Goering was boi'n in Rosenheim, Bavaria on January 12, 1893. The son of a colonial official, he entered cadet school at Karlsruhe. During World War I he served as an infantry officer, later transferring to the Air Force making a name for himself commanding Richthofen's famous Flying Circus. Goering received the much coveted Pour le Merite and the Iron Cross First Class. Finding it difficult to adjust to civilian life after the war, Goering worked in several fields: initially in the Fokker Aircraft Works, then ac advisor to the Danish government, then as a stunt pilot, and a commercial pilot for Svenska Lufttraffik in Sweden. He met Hitler in 1922 through his first wife, the Swedish born Carin von Kantzow. After the Beer-Hail Putsch in 1923, Goering, although arrested, managed to escape to Austria, subsequently living in Italy and Sweden. He returned to Germany in 1926 after the German government granted political amnesty, reestablishing his contacts with Hitler. In 1928, Goering became one of the first National Socialists (Nazi) elected to the Reichstag, Goering was reelected in 1930. After the overwhelming victory by the Nazis in the 1932 Reichstag elections, Goering played a key role in the negotiations for Hitler's appointment to Reichskanzler. In the new government, Goering held a number of important positions: Reich Minister without Portfolio, Reich Commissioner for Air, Prussian Minister President, Prussian Minister of the Interior. In the last position Goering harnessed control over all Prussian police forces, subsequently establishing the Geheime Claatspolizer (Gestapo). Goering quickly rose to the number two position in the Reich. During the Roehm crisis on the weekend of June 30, 1934, Goering directed all Blood Purge actions in Berlin. On March 1, 1935, Goering became Oberbefehlshaber der Luftwaffe (ObdL), Commander in Chief Air Force, subsequently promoted to full General in 1936. Hitler also appointed Goering as Plenipotentiary for the implementation of the Four-Year Plan in 1936, giving him vast powers over the state economy and rearmament program. In 1938, Goering enging red the removal of the War Minister, von Blomberg and the Commander of the Army, von Fritsch, in hopes of being elevated to the position of War Minister himself. In the latter days just before the outbreak of war Goering attempted to negotiate with Prime Minister Neville Chamberlain, through Birger Dahlerus, a Swedish intermediary. After the Battle of France, on July 19, 1940, while Field Marshal's batons were handed to Army generals, Goering received a promotion to Reichsmarschall. Towards the end of the war Goering tried to seize power from Hitler, the latter at the news deprived him of all his offices and ordered him shot. Goering, captured by the American Army on May 9, 1945, stood trial before the Nuernberg War Tribunal, receiving the death penalty. Two hours befor his execution, on October 15, 1946, Hermann Wilhem Goering committed suicide by taking a vial of poison. Lous L. Snyder, Encyclopedia of the Third Reich (New York: MacGraw Hill, 1976), pp. 122-124; and Hans Otto Meisner, *Die Mactergreifung* 

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(Esslingen: Bechtle Verlag, 1983), 232-235; also, for a more indepth biography of Hermann Goering, see Willi Frischauer's book *The Rise and Fall of Hermann Goering* (Boston, 1951)

BErich Raeder was born to a north German middle class family in Wandsbeck, near Hamburg, on April 24, 1876. He attended the Naval Academy at Kiel. As a young officer he made a cruise to the orient with a flotilla of warships, and served on the Emperor's yacht Hohenzollern During World War I, Raeder served in the Battle of Jutland. After the war he remained in the Javy and in 1928 became Chef der Marineleitung (Chief of the Naval Command). In 1935, Hitler named Raeder Oberbefehlshaber der Marine (ObdM), a position he held until 1943. In this capacity, Raeder played a key role in the rearmament of the Navy. Early 1939 marked his last promotion, Grand Admiral. Raeder recommended an invasion of Norway in the first months of the war. The admiral opposed Hitler's ambitions for war against the Soviet Union, however, once the decision was made he supported the effort. The differences between Hitler and Raeder became strong enough by 1943 to warrant his retirement. On the Fuehrer's orders, Raeder retired on January 30, 1943. After the war, Admiral Raeder was prosecuted at the Nuernberg War Tribunal and received a sentence of life imprisonment. In late September 1955 he was released because of ill health. Admiral Raeder died in Kiel on November 6, 1960. Snyder, ap cit, pp. 279-280; also see Erich Raeder's autobiography, My Life (Annapolis, 1960)

90000000-1000000 Franz Halder, *The Halder Diaries The Private War Journals of Colonel General Franz Halder*, Introduction by Trevor N. Dupuy, (Boulder: Westview Press, 1976), Vol. 2, p. 15.

100berkommando des Heeres, Army High Command, was established along with the Luftwaffe and Navy High Commands in 1935 as separate services under the Oberkommando der Wehrmacht (OKW), Armed Forces; see also Appendix C for a wire diagram of the organization of the OKW.

11 Casualties suffered in the army were: 8,082 killed, 27,278 wounded, and 5,029 soldiers missing in action. Officers represented 4.6% (dead) of these figures which is quite high. Lewis, *op cit.*, p. 81.

128elow, op cit., p. 211.

13 Jacobsen, op cit., p. 8, 10 and 29; and Halder, op cit., Vol. 2, p. 18; and Alistair Horne, To Loose a Battle France 1940, (Boston: Little, Brown and Company, 1969), p. 139; and Below, op cit., p. 210.

14Main effort; Schwerpunkt. The context in which the German military used the term Schwerpunkt during World War II signifies the point of main effort. Clausewitz, in his writings, calls it the center of gravity, the source from which the enemy derives his power or energy to fight.

15Below, op cit., p. 211; and Jacobsen, op cit., p. 9.

16Franz Halder was born in Wuerzhurg, Bavaria, on June 6, 1884. In 1902 he entered the 3rd Bavarian Field Artillery Regiment. After the war he remained in the Reichsheer. In 1935 he took command of the 7th Infantry Division, and in late 1936 transferred to the Army

General Staff as the Oberquartiermeister I (Deputy Chief of Staff for Operations). After the Blomberg-Fritsch crisis, Helder became Chief of Staff. He was an anti-Nezt, extremely gifted, and able to out think and outperform any of his OKW counterparts. Although at odds with the Nezi philosophy and the route on which it had placed Germany, Helder's religious convictions and conservative nature prevented him from undertaking any murderous act. He maintained occasional contacts with the resistance, but never participated in any covert act. As a methodical staff officer, Helder became infuriated with interventions by Hitler and OKW. After Hitler relieved Colonal-General Helder on September 24, 1942, he saw no further service during the wer. Occasionally he appeared in public at official functions, especially military funerals. He finally retired on January 31, 1945. After the wer he lived in Karlsruhe. Keilig, ep cit., p. 117; Telford Taylor, The Nerch of Conquest (New York: Simon & Schuster, 1958), pp. 14-15; and Helder, ep cit., p. XXVI.

17President (Fieldmershell) Paul von Hindenburg died on August 1, 1934. The following day Hitler ordered the entire Reichswehr to sweer an oath of allegiance to him. Daths were not taken lightly by the German Army. This new oath, in particular, was sworn to Hitler and not to a constitution and had a special significance since all members of the armed forces swore the same unconditional obedience to the Fuehrer. The oath was not void until Hitler's death.

18 Jacobsen, op cit., p. 26; Lewis, op cit., p. 43; Harold C. Deutsch, *The Conspiracy against Hiller in the Twilight Har* (Minneapolis: The University of Minnesota Press, 1968), pp.34-35; and Walter Warlimont, *Inside Hiller's Headquarters* 1939-1945 (New York: Frederick A. Praeger, Publishers, 1964), p. 61.

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19 Lewis, op cit., pp. 8-11; Halder, op cit., p. 5 and 22; and Below, op cit., p. 211.

# **CHAPTER TWO**

# Development of the Campaign Plan

"Es kommt nicht auf einen schoenen Befehl an, sondern auf des Miederlegen eines Entschlusses, der mit Herz und Haerte durchgefuehrt werden muss." Generalaberst Heinz Guderian

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# Initial Pleaning

In early October 1939, General von Brauchitsch still hoped the Fuehrer would settle for negotiated peace, rather than forcing the army into a winter offensive. Other senior officers at Zossen¹ expressed skepticism with Hitler's intended venture knowing full well that it would spark another World War. A comparison of the 1939 situation with that of 1914 indicates that the 1914 Great General Staff relied on a meticulously scrutinized, thoroughly war gamed, war plan. In 1939 Germany had no such invasion plan against France because the General Staff did not envision offensive action against the latter. OKH, therefore initially attempted to delay undertaking a campaign, but finally relented after several months, when faced with repeated demands by Hitler.2

Hitler called in Generals von Brauchitsch and Halder again on 7 October to remind them of his intentions and to meddle in military matters. The Fuehrer was convinced that a Belgian request for French military assistance was imminent. In his view, French troops moved forward into Belgium along Germany's border was intolerable and answerable only by offensive action. He therefore demanded an immediate offensive. To von Brauchitsch's dismay Hitler decreed that the offensive at a minimum must gain as much ground as possible in northern Belgium and Holland to provide a protective buffer for the Ruhr and staging bases for air attacks against Britain. A seasoned military officer could not easily accept Hitler's new strategic concept. Cerman General Staff officers had always been trained to destroy the enemy's army. You Brauchitsch and Halder departed the chancellery for Zossen to digest their boss' new instructions. To doubt reflecting

upon the previous day's Reichstag Address in which Hitler offered peace to the Western Allies, concomitantly guaranteeing Belgian, Dutch, and Luxembourg neutrality. In the meantime, contrary to Hitler's public peace offer, OKH was left with no alternative but to issue new directives to commanders on the Western Front.<sup>3</sup>

Colonel-General Fedor von Bock<sup>4</sup>, Commander in Chief of Army Group B, received a mission to protect the German border from the Ems River to Mettlach where his Army Group linked with Army Group C, commanded by Colonel-General Wilhelm von Leeb<sup>5</sup>. Army Group C's front stretched from Mettlach to the Swiss border, also with a defensive mission. You Bock's instructions not only directed him to guard the Dutch border between the Ems and the Rhine River, but also to be prepared to conduct offensive operations into Holland and Belgium if required.<sup>6</sup>

On October 9, while von Bock visited Zossen, von Brauchitsch requested that he submit a written proposal for an offensive through Belgium and Holland. Von Brauchitsch, however, also told von Bock that he and General Halder were completely against an offensive in the west. In route to Bad Godesberg the following day, von Bock stopped in Frankfurt/Main to discuss the western situation with General von Leeb, who also expressed his displeasure at any attempted offensive. Not only did von Leeb express a lack of confidence in the planned offensive, but also expressed outrage at the Fuehrer's motives. On the following day von Bock heard the same objections from his two army commanders, Generals Walter von Reichenau? and Guenther von Kluge.8 Returning to Zossen for a briefing on October 17, von Brauchitsch requested von Bock to comment on the proposed operational plan. Yon Bock declined to answer "off the cuff", but the following day, after thoroughly studying the plans, sent his reply to von Brauchitsch.9

The Fuehrer was aware that his generals were against an offensive in the West. His

occupation of the Rhineland. Hitler, therefore occupied himself with developing a means of motivating his generals into a more offensive spirit. Sometime between 6 and 9 October he dictated a memoradum on his ideas and concept for the continued war in the West. On the 9th Hitler became rather nervous since the Allies had not replied to his peace offer, ordered OKH to set the offensive for November 25, and directed von Brauchitsch and Halder to assemble in his office at 1100 hrs on the 10th. Hitler personelly read the entire 58 page memorandum to them. In the document the dictator underscored the reasons for his decision to initiate a quick and shattering blow to the West, should be have no other choice in wake of the political developments. Additionally, he handed them "Directive #6 For The Conduct of War" which amongst other things, specifically addressed the military situation in the West:

For the continuation of military operations the following is ordered:

- a) Offensive operations are to be planned along the Vestern Front in the north, to attack through Belgium, Holland and Lucembourg. This attack must be varried out with the strongest possible forces at the earliest possible apportunity.
- b) The goal of this offensive operation is to defeat large elements of the French army and her allies, to secure as much ground as possible in Belgium, Holland, and northern France for the purpose of establishing Luftwarfe and Many bases to conduct an air and sea war against England, and the establishment of a protective buffer for the war makerial producing Ruhr.
- a) The date of the offensive depends on the availability of tanks, motorized units, and weather. All efforts must be made to harness the mobile forces as must be assessible." 10

This document revealed that Hitler's real strategic goal was not the defeat of France, but rather gaining the channel coast to engage Brituin in a U-Boat and air war. He personally stated no clear political motive, however, probably already signified one through his attempt to win the war against the western Allies by his northern offensive. Hitler also lacked an understanding of and a judgement for available resources to conduct war. Serious enough problems existed in the area of motorization (tanks and motorized vehicles of all types), munitions, and training to cause alarm and possibly warrant a re-evaluation for an immediate offensive, especially with winter

# approaching.11

General Halder especially worried over the establishment of additional tank and motorized divisions. Only by stripping several infantry divisions of motorized vehicles could be provide the necessary mobility to newly activated armored and motorized divisions. The shifting of vehicular essets could only be accomplished at the detriment of the entire army. Concomitantly, Germany lacked the more modern tank types Mark III and IY in the fall and winter of 1939. The majority of tanks used in Poland were obsolete Mark I's and II's. Hitler's declaration about time being in the enemy's favor was in reality false. On the contrary, Germany would benefit from delaying over the winter, raising the level of maintenance, refitting with more modern equipment, and providing the necessary training to improve the army's combet performance.12

On 16 October during a briefing by General von Brauchitsch and Admiral Reeder, Hitler stated that he gave up any hope of the Allies excepting his peace proposal. He, therefore decided that the Western powers must be defeated militarily. The Fuehrer separately informed the ObdH that he agreed to provide seven days notice prior to initiating the offensive. You Brauchitsch was told to consider 15-20 November as possible target dates. The ObdH's objections again fell on deef sers. Hitler gave OKH no alternative but to plan for the investor of France, Belgium, and Holland. The stalling maneuver slowly ran out of steam.13

The Operations Branch of OKH issued an operations plan based on Hitler's "Directive No. 6 for the Conduct of War" on October 19, 1939 (see Appendix A, Map 3). This plan called for the strategic concentration of the majority of the Field Army, organized in two army groups, along the Dutch, Belgian, and Luxembourg borders from north of Wesel to Trief. The point of main effort rested with General von Bock's Army Group B consisting of the 18th, 2nd, 6th, and 4th Armies, headquartered in Bad Godesberg. OKH, additionally planned to employ six out of seven Panzer divisions in von Bock's sector. These Panzer divisions, concentrated in the Aachen area formed a

mighty attack wedge with the mission of rapidly driving through Balgium and northern France, opening the way to the channel coast for the following infantry divisions. Colonel-General Gerd von Rundstedt's14 Army Group A, consisting of the 12th and 16th Armies, headquartered in Koblenz, received orders to advance throught the Ardennes and Luxembourg in a west-north-C, considerably weaker than the other two Army Groups, under the command of General von Leeb, with the 1st and 7th Armies, headquartered in Frankfurt am Main, received the mission to protect the left flank of Army Group A and defend the West Wall from Trier to the Swiss border. Based on an accurate intellignace assessment by OKH's Foreign Armies West, weak Belgian forces were anticipated in the Ardennes and strong forces north of Liege. OKH concentrated the armor forces in the north because planners considered the Ardennes impessable during the winter. Army group commanders and their army commanders, however, objected to this operations plan, especially with respect to chiployment of motorized forces in the north. Considering the multiple water obstacles in that region, they judged it ill conceived. This questioned the entire concept of an offensive in the West. It was also an obvious duplication of the Schlieffen Plan, hence an operation the western Allies expected (see Appendix A, Map 3 and Appendix C). Generals Keitel and Jodl visited Zossen on October 22 to brief von Brauchitsch on Hitler's dissatisfaction with the plan, and to inform him of the Fuehrer's intentions of using specialized troops for the securing of bridges and key installations behind the front. Judl further informed OKH that Hitler definitely set the offensive for November 12, 1939.15

Hitler, however, dissatisfied and uneasy about the operational plan, exercised his role as Commander in Chief of the Wehrmacht by inviting General von Bock and two of his army commanders, Generals von Reichenau and von Kluge, to brief him on their plans on October 25, in Berlin. The ObdH and Army chief of staff were also asked to join. During the briefing Hitler, to

River with a direction of west-northwest towards Reims or Amiens. General von Bock immediately expressed concern over the road network, and considered the shifting of forces into this area as only compounding the problem. You Brauchitsch and Halder were completely estonished with this new development. Hitler, as so often before, had not discussed this brainstorm with von Brauchitsch prior to the meeting. The Fuehrer ordered OKH to investigate the possibility. Meanwhile he would defer a decision for a day or two. This constituted Hitler's first serious meddling in military operations, a development which all to soon became the norm.16

Hitler, in a subsequent meeting with Generals Wilhem Keitel<sup>17</sup> and Alfred Jodl<sup>18</sup>, decided to move the main effort south of Liege with 12th Army advancing westward and isolating Belgium. This would be accomplished by attacking the Belgian Forts frontally, searching for weak points, with the idea of unleashing the Panzer units held in reserve to exploit these weak points. Jodl briefed Halder about the new developments on the evening of October 26. Halder's last journal entry for that day reads: "Try everywhere." You Brauchitsch and Halder remained perplexed, unable to react in time to these changes. Hitler, obviously obsessed with this offensive, continued to suggest changes almost daily. On October 27 he recommended yet another change, this time requesting OKH to plan for two motorized groups advancing towards Gent and southwest of Namur. His decision would follow on the 28th.20

At a meeting at the New Chancellory on the morning of October 28, Hitler again provided new instructions. He began by restressing his theory of defeating large formations of the French and British armies as the first essential goal, securing major territory along the French and Belgian coastline. To fulfill this plan a breakthrough should be conducted both north and south of Liege, employing—one Penzer Gruppe (Group)21 in each sector holding 6th Army in reserve

Liege, employing one Panzer Gruppe (Group)21 in each sector holding 6th Army in reserve until the Meuse River crossings were secure. Based on these changes, OKH issued a new operations plan on October 29, 1939 (see Appendix A, Map 4). The struggle for the final operational plan was now well on it's way.22

The results of the new plan were as follows:

Holland would not be occupied.

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- 2. OKH political/strategic goal: defect as many French forces, and those of her allies in northern France and Belgium thus setting the stage for further operations against Britain
- 3. Operational goal: to destroy the Allied forces north of the Somme river and break through to the channel coast.
- 4. Meeting Hitler's directive of October 25, OKH shifted units south and 4th Army was to attack with four armored divisions north and south of Namur.
  - 5. The main effort remained with Army Group B.

Although this new version was by no means brilliant, the obvious weaknesses of the previous one were overcome. It still did not present anything original. The three army group commanders still questioned the use of motorized units in the north, where numerous water obstacles could grind an offensive to a halt. They foresaw a situation where, although elements in Army Group A were successful in their advince, a stall in the north would bring the entire offensive to a halt. The greatest criticism came from the Chief of Staff of Army Group A, General Erich von Manstein<sup>23</sup>, who became the catalyst for the development of the final operational plan.<sup>24</sup>

October 30, 1939 proved a significant date, since Hitler for the first time suggested a breakthrough near Sedan. The Fuehrer discussed this possibility with General Jodl, who neglected to pass the information on to his counterpart at OKH. Dissatisfied with the latest OKH operational plan and the pace with which von Brauchitsch and Halder were implementing it, Hitler requested the ObdH for a meeting at the New Chancellory on November 5,1939.

The November 5, 1939 meeting is recorded in history as one of the tragic moments between

the relations of the German officer corps and it's head of state. (Coincidentally, the 5th was also the deadline for initiating the geoloyment of assault divisions into assembly areas along Germany's western borders if an offensive were to occur on the 12th). General von Brauchitsch spent the 2nd and 3rd of November visiting the Army Group commanders in the West to gain a first hand impression of their opinions of the upcoming offensive. Once again they expressed no confidence in an offensive. You Brauchitisch attempted to use the meeting on the 5th to again delay the offensive. The general prepared and read a memorandum to Hitler pointing out weaknesses within the army. The meeting, however, turned extremely sour and ended abruptly without von Brauchitsch being able to sway the Fuehrer. General von Brauchitsch's references, during the confrontation, to German soldiers' poor discipline and performance in Poland only served to further upset the relationship between the two men. Hitler became so furious that he immediately dictated a dismissal order for the Army's Commander in Chief, but discarded it later. Hitler, well aware that a dismissal of his Army Commander in Chief would only cause a further dissent between himself and his generals, opted to cancel the order. Whatever confidence existed between these two men prior to November 5, 1939, however, was never restored. General Brauchitsch's relief would only be delayed by a couple of years.24

The Fuehrer, enraged about his meeting with von Erauchitsch, ordered the Army's alert for the scheduled offensive on the 12th, but agreed to a postponement on the 7th. Jodl had not advised Halder of Hitler's "brainstorm" until November 3. The Army Chief of Staff failed to see any point in this new development and, given the schedule for an offensive on the 12th, determined the available time to react as inadequate. On the 9th the ObdH informed Oberkommando der Wehrmacht (OKW)25 that time still would not permit any changes in plans, even if postponing the offensive to the 15th. Should, however, a postponement occur, the ObdH suggested organizing a motorized group, commanded by General Heinz Guderian.26 This recommendation.

would not commence prior to the 19th and that Hitler now wanted Panzer units employed on an axis Arlon-Tintigny. Hitler also authorized the use of the 4th Light and 29th Motorized Divisions. Declining OKW's offer, the ObdH cited a lack of time to reallocate and relocate the mechanized divisions. In a discussion with General Helder, von Brauchitsch indicated that he viewed the dearth of additional Panzer divisions as unacceptable. Panzer reserves did not exist and he did not went to divert any from the planned concentration of forces in the north. Lastly, von Brauchitsch felt that Hitler did not want to scatter mechanized forces over the entire front. The ObdH would rather wait and assign the 4th Light and the 29th Motorized Divisions to the XIXth Corps once fully combat reedy. However later on the same day von Brauchitsch changed his mind and onweed an additional Panzer division added to Guderian's XIXth Corps. On the 10th OKH informed OKW that it wanted the 10th Panzer, 2nd Panzer Divisions or 29th Motorized Division, and Leibstandarte SS for the purpose of advancing to Sedan. The 4th Light Division would remain in OKH reserve. You Brauchitsch requested permission to issue orders to this affect. Hitler considered these forces inadequate and ordered 2nd Panzer added to the 29th Motorized Division to ensure success. Hitler was correct in not giacomealing Panzer divisions over the entire front, however, he failed to provide his Army CinC any clear statement of intent. Instead the Fuehrer suggested a new whim each day, causing OKH to remain in a constant state of reaction, rather than being able to plan and test some of these theories in war games for feesibility 28

The lack of Panzer reserves resulted in a shifting of all motorized forces along the western Front to organize the necessary Panzer group. Panzer divisions could only be obtained at the expense of already existing forces. On the 11th OKH issued orders to Army Groups A and B, instructing them to release the 2nd and 10th Panzer Divisions, one motorized division, Leibstendarte SS and Infanteria Regiment "Grossdoutschland" ("GD") for assignment to the XIXth Corps. The mission of XIXth Corps was to advance, as lead echelon, in front of 12th and 16th

Armies to the Meuse River near Sedan, force a crossing, thereby establishing favorable conditions for a continuation of the offensive. Thus was born XIXth Panzer Corps. Upon receipt of this message General von Bock informed OKH that, unless provided additional forces, he could no longer accomplish his assigned mission.<sup>29</sup>

Postponements of the offensive continued throughout the winter, primarily because of poor weather. The real struggle for the operational plan and employment of armored forces, however, had not yet been fought. With Guderian in command of XIXth Panzer Corps and von Manstein as Chief of Staff of Army Group A, a new chapter in the planning process commenced. 30

# THE QUESTION OF MAIN EFFORT AND THE CUT OF THE SCYTHE

Both operational plans, issued by OKH in October 1939, failed to establish a military goal that would satisfy the political aims of Adolf Hitler for western Europe. Hitler, untrained in the art of werfare, was incapable of presenting recommendations to his military advisors that he derived at through a sequence of logical military deductions, but rather based his suggestions on intuitions and loud thoughts. The Army leaders, von Brauchitsch and Halder, failed to understand Hitler's military goals, because they did not support his political aims. You Brauchitch and Halder also concluded that the military offensive in the West was wrong and, judging the Army unprepared could only view it as an imminent failure. Thus, the Army leaders never supported their political leader and the two October plans amounted to nothing more than rejuctant obedience or improvisation upon Hitler's orders. The main effort remained ill conceived, Army Group commanders had no confidence in the OKH plans, and several senior Army officers began to question OKH's ability to plan an offensive.

The question of main effort and the employment of Panzer assets was a burning issue right

The question of main effort and the employment of Panzer assets was a burning issue right from the beginning of the planning process, however, with General Guderian earmarked as a possible contender to lead this effort and General von Manstein as Chief of Staff of Army Group A, OKH began to feel more pressure from the field. Guderian, commanding XIXth Corps, became intimately involved in the planning process after November 11, when he received information that his XIXth Corps might lead the armored thrust. He agreed that a thrust through the Ardennes was feesible, but felt the allotted forces were insufficient.

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General von Manstein's involvement began on October 21, 1939, when, in route to Army Group A's headquarters in Koblenz, he visited Zossen and received his first briefing on the operation. As early as October 31, von Manstein, with von Rundstedt's endorsement, wrote the first of many memorandums to OKH advocating a main effort more to the south, in Army Group A's sector. After General von Bock was required to transfer both of his reserve Panzer divisions to Army Group A, he expressed dissatisfaction with von Manstein's plan because it not only threetened to wrestled the main effort from Army Group B, but also meant a reduction of the size of his Army Group. You Bock talked to Halder and von Brauchitsch several times over the next few weeks, expressing his concerns over the constant fluctuations in mission requirements. He considered continuous changes, both in mission and offense dates, a hindrance to preparation, and warned OKH about the long term negative impact the perpetual alert status would have on his soldiers.32

The question of main effort became critical since reserves were usually positioned to support the main effort. This caused a triple rivalry between the commanders of Army Groups A, B, and General Halder. Halder, caught in the middle, received pressure not only from field commanders, but also from Hitler, who demanded immediate action.

Yon Manstein's theory envisioned an offensive resulting in a decisive victory through

through to the Somme and destroying or cutting off all Allied forces moving into Belgium. Phese two, visualized the forces turning south to envelop and defect the Allies. You Manstein based his plan on the Allies expecting a repect of the 1914 Schlieffen Plan. He figured that allied countermeasures would call for stopping the Germans as far northeast as possible, attacking the German southern flank, and rolling up the entire front. He planned the main effort in Army Group A's sector, with one army attacking in a westerly direction between Dinant and Fumay in conjunction with Army Group B (to the north) trapping and destroying enemy forces in Belgium. An additional army would also advance and cross the Meuse on both sides of Sedan in a southwesterly direction opposing enemy forces expected to counterattack north. Heving eliminated the enemy's counterattack forces, the northern armies could drive westward unimpeded resulting in a decisive victory. (see Appendix A, Map 7)34

in several memorandums General von Manstein provided planning figures to OKH delineating the minimum forces required to achieve victory. He requested two mobile corps, at a minimum one Panzer Corps, to defeat enemy forces in southern Belgium. Following von Moltke's view that no operational plan should be planned beyond it's first engagement, von Manstein's further employment of mobile forces depended on the enemy's reaction. Eliminating the dangers of an exposed flank, mobile forces from Army Group A could strike north, assisting in the atruction of encircled enemy forces. You Manstein, however, recommended the mass of the atmospherical forces in Army Group B's sector. A third army would have the responsibility of establishing a defensive front between the Meuse at Carignan and the Moselle at Metlach. You Manstein also envisioned the simultaneous destruction of Allied reserve forces moving north toward Furney and Laon. (see Appendix A, Map 7)35

General Helder, in the meantime, also investigated the operational possibilities, and as an able General Staff planner did not dismiss von Manatein's ideas. You Manatein's plan called for

offensive flank protection using motorized units (2nd Army). Helder stated as early as November 1939 that a possible attack against the left flank of Army Group A was consistent with German doctrine, but was not contemporary Franch doctrine. In his own schame, Halder ralied on infantry divisions for defensive flank protection while rapidly advancing motorized units toward the Somme. He disliked von Manstein's plan, partly because it lacked unity of effort. Helder wented to evoid "private campaigns" with Army Group B advancing northeast and Army Group A southeast. He envisioned 4th Army advancing (south of Namur) repidly to the Somme on the northern flank of Army Group A, thus trapping and destroying the Allied armies north of the Somme. Helder planned for five Panzer and three motorized divisions to lead the attack. You Menstein, on the other hand, envisioned a strong Army Group B pushing Allied forces toward the Somme, while engaging Army Group A both in destroying Allied reserves and attempting to drive to the channel coest (see Appendix A. Map 7). Heider's plan hinged on Army Group B feliating in the north, thereby deceiving the Allies into committing their mechanized reserves to the north. He likened this to a hammer and anvil approach where Army Group B, the anvil, fixed the allies in the north while Army Group A, the hammer, provided the decisive blow with the Panzer and motorized divisions. General you Manatein's theory consisted more of a double hammer approach where 2nd Army in the center could act as an anvil.36

General Halder found it difficult to change his October 29 plan because of Hitler's sole control of all armored and motorized assets and the continuous rescheduling of the Western offensive. It was postponed 14 times between 12 November 1939 and 16 January 1940. The Army Chief of Staff did, however, incorporate significant changes directed in OKW Directive Number 6 issued on 20 November 1939 for the January 17, 1940 target date. These changes did not incorporate his own concepts on how the offensive should be conducted (see Appendix A, Map 5). Hitler, however, cancelled the offensive for an indefinite period on 16 January since the long

assertation processes a designate proposes of the control assertation and the control and the process of the control and the c

range weather forecast remained poor, but more importantly, an incident on 10 January may have revealed his intentions to the Allies.37

The incident on January 10, 1940, known as the "Mechelen Affair" changed the entire situation. A Luftweffe paratroop officer carried the top secret operational plan, against orders, while on a flight from Muenater to Koeln. During the trip the pilot became lost and strayed into Belgian territory. After a forced landing, caused by aircraft engine trouble, the Belgians captured parts of the German wer plan. Although only fragments of the plan fell into Belgian hands, Hitler did not believe the testimony of the officers and postponed the offensive until some time in the spring. This, for the first time since September 27, 1939, provided OKH with an opportunity to fundamentally change the October plans. More importantly, the Army General Staff had time to test changes through its traditional methods and could properly plan a logical deployment. 38

General Haider and the Army Groups conducted a series of war games to test several scenarios, ultimately convincing the Army Chief of Staff that you Manatein's overall concept was correct. These wargames led OKH to shift the main effort south of Liege in an advance through the Ardennes to Sedan. Haider, in an effort to assert his control over the army group commanders, also shifted army group boundaries, placing 4th Army under Army Group A. In mid February he also placed all armored and motorized forces under a separate army headquarters. His plan was not without risk. Haider himself, after analyzing his decision, determined that OKH had to take the risks. He summarized it by saying: "It would be impossible to justify to military historians not to have taken a risk so promising and rilled with the possibility of decisive victory." 39

In mid January 1940, the Army Personnel Office informed General von Manstein that he would be replaced as Army Group A's chief of staff, and that he would assume command of the XXXVIII Corps, a third echalon infantry corps in the upcoming offensive. Coincidentally, von Manstein, while in route to his new corps command, briefed Hitler on February 17, 1940, in

Manstein, while in route to his new corps command, briefed Hitler on February 17, 1940, in Berlin. Hitler was impressed by von Manstein's ideas and immediately summoned von Brauchitsch and Halder for a meeting on the following day. Halder and von Manstein had only two or three occasions where they personally interacted. Even though the two Army leaders had no idea what von Manstein's briefing contained, it was very similar to their own and Hitler accepted the OKH version. This plan is recorded in history as the "Sichelschnitt Plan" (cut of the scythe) (see Appendix A, Map 6). General Halder based his plan on several war games. Although the plan contained many of von Manstein's ideas, Halder actually developed the plan through meticulous General Staff work. Hitler, finally satisfied, accepted the plan and OKH issued it to the army groups on February 24, 1940. General Halder vehemently defended his plan against any major changes by either Army Group A or B after this point, making it clear that his Sichelschnitt Plan was final.40

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The plan published on February 24, 1940 provided a sound foundation, although many of the details that would ultimately make it so successful still required meticulous staff work. In retrospect the operational plan was not conceived by any one individual, but rather through a combination of General Staff planners employing all the specialized knowledge, weighing risks in order to arrive at the best possible solutions. The Sichelschnitt Plan evolved over time, probably through a match of von Manstein's strategic concepts and Hitler's ideas. Halder, the technocrat, absorbed and analyzed all the varried ideas and developed it into the actual campaign plan. Finally the General Staff tested it for feesibility. The Sichelschnitt Plan, however, like its October 1939 predecessors, did not reach beyond the fall of France. The General Staff still lacked an overall political and military strategy for war with all belligerents, because of OKH's rejuctance to undertake any offensives. This shortsighted outlook was the seed for future disasters.

The road was now open to begin preparations and to dedicate training for an offensive in the

training over the winter months to rectify tactical, disciplinary, and equipment problems identified in after action reports from the Polish campaign. General Halder and the army group commenders had their hands full over the next 12 weeks preparing the German army for the execution of this offensive, while at the same time fixing major problems in the areas of organization and training.42

#### END NOTES

### CHAPTER TWO

1Zossen is a town about 20 miles south of Berlin, where OKH maintained its field headquarters from October 1939 to May 1940 after which the headquarters moved to Muenstereifel, closer to the German-Belgian frontier, for the Battle of France. After the Battle of France it was relocated at Fontainebleau, France. Hitler used the term Zossen in a derogatory manner, often referring to the OKH leadership as the "Spirit of Zossen" (defeatists). Telford Taylor, *The March of Conquest* (New York: Simon and Schuster, 1958), p. 15.

<sup>2</sup>Hans-Adolf Jacobsen, *Fall Galb*, p. 32; for additional information on opposition to Hitler's plans see Edgar Roehricht's *Pflicht und Gawissan Erinnerungen eines deutschen Generals*, pp. 151-155; and Walter Warlimont's *Inside Hitler's Headquarters* 1939-1945

3General von Bock took command of Army Group B on October 10, 1939; Generaloberst Franz Halder, *The Halder Diaries*, p. 100; Max Domarus, *Hitler Raden und Proklamationen 1932-1945 Kommentiert von einem deutschen Zeitgenossen* Vol. II Untergang Erster Halbband 1939-1940 (Wiesbaden: R. Loewitt, 1973), pp. 1378-1393; also Chapter three (Hitler Elects to Attack in the West), in Harold C. Deutsch's book, *"The Conspiracy against Hitler in the Twilight War"*.

4Fador von Bock was born on December 3, 1880 in the town of Kustrin. He entered the Prussian 5th Guard Foot Regiment in March 1898. Von Bock distinguished himself as a staff officer during World War I. He was promoted to the rank of Field Marshal on July 19, 1940. Von Bock saw no further service after 1942 and on May 4, 1945, died of wounds suffered during an RAF strafing attack. Lewis, Forgotten Legions, p. 90; and Taylor, The March of Conquest, p. 405.

5Wilhelm Ritter von Leeb was born on September 5, 1876, in Passau and became an officer in the 4th Bavarian Artillery Regiment. In the Reichsheer he commanded the 7th Infantry Division. After his retirement in 1938, von Leeb was called back to active duty to command Army Group C during the German offensive in 1940. Amongst his peers von Leeb was regarded as a defensive "position" specialist and considered to be somewhat out of date in his military thinking. He saw no further service after 1942. Ritter von Leeb died at the age of 30, in Hohenschwangau. Taylor, ap cil., p. 19; and Keilig, Des Deutsche Heer, p.193.

6 Jacobsen, ap cit., p. 15.

<sup>7</sup>Walter von Reichenau was born in Karlsruhe on October 8, 1884. During World War I, he served in the 1st Prussian Guards Field Artillery Regiment and later as a staff officer. In February 1934 he became the Chief of the Ministerial-Amt, Reichswehr-Ministerium and in October 1935 headed Kreis-Gruppenkommado VII (later Wehrkreis VII), Munich. Yon Reichenau, also known as "Hans Dampf in allen Gassen" (Hans who gets into every ally) was labeled a Nazi officer because of always maintaining good contacts to the party. In 1934 he played a leading role during the Roehm-crisis, taking the initiative and convincing Hitler of Roehm's goals and intentions with regards to the army. Promoted Colonel-General on October 1, 1939 he assumed command of the 6th Army. On July 19, 1940 he received his promotion to Field

Marshal. Interestingly enough, when Guderian recommended von Reichenau to replace von Brauchitsch in November 1939, Hitler simply replied, "this General is too political for my taste". Von Reichenau was a modern officer who understood the technical innovations of the day. Even though labeled a Nazi officer, von Reichenau did not fold when confronted by Hitler, on the contrary, he always, spoke his mind in a very confident manner. Von Reichenau later developed doubts and finally broke with the Hitler altogether. Lewis, op cit., p. 32; Taylor, op cit., pp. 399, 40; and Nicolaus von Below, Als Hitlers Adjutant, pp. 72-73 and 443.

 $^{8}$ Guenther von Kluge, born on October 30, 1882 in Posen, begen his military career in the 46th Prussian Field Artillery Regiment in 1901. He remained in the Reichsheer and commanded an artillery regiment. 1933 he became Inspector of Signal Troops and in 1934 assumed command of the 6th Infantry Division. Von Kluge commanded the 4th Army during the Battle of France in 1940 and was promoted to Field Marshal on July 19, 1940. He led from the front. His personality was somewhat complex and rendered him unapproachable to many. Thus, von Kluge was a difficult person as a superior, for many subordinates. Linked to the resistance movement, he committed suicide after the failed attempt on Hitler's life in 1944. Keilig, *ap cit.*, p. 168; Lewis, *ap cit.*, p. 105.

9Yon Brauchitsch requested von Bock's opinion on the planned offensive because he did not want anyone to have the impression that he was using von Reichenau's opinion to back his own. The military community was well aware of von Reichenau's opposition to the offensive in the West. Yon Bock, in his diary, does not clearly state what his reply to von Brauchitsch was. One can only assume it to have been negative since the reply went by personal courier and aircraft to Berlin. Generalfeldmarschall Fedor von Bock, *Tagebuchnotizen Westen 4.10.39-9.5.40*, National Archives and Records Service (NARS), T84/271, pp. 1-3; Harold C. Deutsch, *The Conspirac against Hitler in the Twilight War* (Minneapolis: The University of Minnesota Press, 1968), pp.72-75.

10 Damarus, *op cit.*, Yol II, p. 1394; A total of 17 Directives for the Conduct of War were issued between August 31, 1939 and August 1, 1940. Taylor, *op cit.*, p. 433-434; At the same time Germany experienced a monthly steel deficit of 600,000 tons. Demands of the three services exceeded her productive capacity, placing the services in a state of constant rivalry for higher quotas. Halder, obviously concerned with these developments, indicated in his journal that the "*ObdH must make clearcut demands in the economic field. Not only military and political demands. also economic demands*". Halder, *The Halder Diaries*, Vol. 2, p. 17; and Burkhart Mueller-Hillebrand, *Das Heer 1933-1945*, Vol 2 (Frankfurt/M.: Verlag von E. 3. Mittler & Sohn G.M.B.H., 1956), pp. 41-42, 105-107, and 141; also see Appendix D, Force Expansion.

11 Jacobsen, *ap cit*, p. 19; Mueller-Hillebrand, *ap cit*, 1933-1945, pp. 41-42, 105-106, and 141.

12Halder, ap cit, Vol. 2, p. 25; Jacobsen, ap cit, p. 19; and Mueller-Hillebrand, ap cit, pp. 41-42, 105-107, and 141; also Appendix D, "Force Expansion."

13Halder, op c/2, Vol 2. p. 30; also, Generals Keitel and Jodl visited Zossen on 22 October to discuss the recently published operational plan. In their discussion Keitel mentioned Hitler's displeasure with the plan, and that OKW decided that it was no longer necessary to occupy

Holland. (The Chief of Staff of the Luftwaffe became inate when he realized the Operational plan of October 29, 1939 did not incorporate Holland. The Luftwaffe feared that the British would use Dutch airfields (c. their fighters. Thus, by November 20, 1939 Holland was again added to the offensive and scheduled to be occupied.) Jodl also explained Hitler's ideas of using Special Operations Forces to capture bridges and the fort at Eben-Emael in Belgium. Lastly, they informed Halder that Hitler set a firm date for the offensive based on OKH's decision that all armored forces would be combat ready by 11 November. The new date was set for 12 November. Jacobsen, *op cit.*, pp. 38-39; and Halder, *op cit.*, Vol. 2, p. 111.

14Gend von Rurdstedt was born in Aschensleben on December 12, 1875. In 1892 he joined the 83rd Light Infantry Regiment. After World War I, he remained in the Reichsheer to command both a cavalry and infantry divison. In 1938 he retired as Colonel-General and became the honorary Colonel of the 18th Infantry Regiment. Called back to active duty in 1939 he served initially as Commander Army Group South, and subsequently as Commander-in-Chief, East during the Polish campaign. Relocating his headquarters to the West after the end of the Polish campaign he was redesignated. Commander, Army Group A on 25 October 1939. In this capacity, he directed the German forces at the Schwerpunkt of the Western offensive. He enjoyed deep respect not only as the most senior German general, but because of his very resourcefulness, ability and flexibility. As commander he relied on the professional officers of his staff, providing them a great deal or flexibility. Field Marshal von. Rundstedt, a true believer in Auftragstaktiv-displayed immense ability. Keilig, *op cit.*, p. 281; Taylor, *op cit.*, p. 19; and Lewis, *op cit.*, p. 106.

15 Jacobsen, op cit., pp. 28-37; Alistair Horne, To Lase a Battle France 1940 (Boston: Little, Brown and Company, 1969), pp. 124-125 and 189-190; Ulrich Liss, Westfront 1939/40 Erinnerungen des Feindbearboiters im Q K. H. (Neckargemuend: Scharnhorst Buchkameradschaft, 1959), pp. 102-103; and Donald S. Detweiler, World War II German Military Studies, A collection of 213 special reports on the Second World War prepared by former officers of the Wehrmacht for the United States (New York & London: Gerland Publishing, Inc., 1979), Vol. VII, pp. 29-30; also, Hitler decided for November 12 as the offensive date since the armored formations were scheduled to be fully combat ready on November 11.

16Halder, *op cit.*, Vol. 2, p. 38.

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17Wilhelm Keitel was born in Helmscherode, on September 22, 1882. He entered the 46th Field Artillery Regiment in 1902. After World War I Keitel held several Reichsheer positions until he became Military Commandant of Bremen and was promoted to General-Major in 1934. In 1935 Keitel became Chief of the Wehrmachtant (Principal department handling interservice planning amongst the three services) in the Ministry of War. By 1938 Keitel achieved the rank of Colonel-General. When Hitier, during the Blomborg-Fritsch crisis in 1938, asked von Blomberg for recommendations on a replacement, Keitel's name came into play. Hitler previously observed Keitel in the War Ministers office and actually questioned von Blomberg about him. You Blomberg replied that Keitel was simply in charge of running the routine daily operations of the Wehrmachtomt (Armad Forces Office), however, Hitler immediately indicated that that was exactly the type of officer he required. Ritter appointed him Chief of Oberkommando der Wehrmacht (OKW), the successor agency to the Ministry of War. Although an impressive title, Keitel, unlike von Blomberg, was not a commander-in-chief of the Wehrmacht, hence he had no power over the three services. Behind his back, fellow officers would refer to him as "Lakeitel" (lackey). Keitel remained in his position until the end of the war. Condemned to hang as a war

criminal by the Nuernberg Tribunal, his execution was carried out in 1946. Keilig, op cit., p. 160; Taylor, op cit., p. 12-13; Lewis, op cit., p. 43; Below, op cit., 66-67; and Horne, op cit., p. 143; and Warlimont, op cit., pp. 12-13.

18Alfred Jodl was born in Wuerzburg, Bavaria on May 5, 1890. He started his career as a cadet and subsequently joined the 4th Bavarian Field Artillery Regiment in July 1910, and promoted Lieutenant in October 1912. After World War I, he served in the Reichsheer. He would become one of the most dominant figures in the OKW. In September 1939 Jodl took over as Chief, Plans and Operations Division of OKW, and became Hitler's principle military adviser throughout the war. More forcaful than his superior, Keitel, Jodl often stated his views to Hilter. Jedl, overwhelmed by Hitler's early successes, became infatuated by his style of leadership. Consequently, Jodl treated his staff much the same way Hitler treated the leadership of OKH, simply providing them with detailed instructions for execution, rather than drawing on them for consultation. Jodl, tried for war crimes before the Nuernbarg Tribunal, was condemned to death and executed in 1946. Keilig, \*perit.\*, p. 152; Taylor, \*perit.\*, p. 13; Lewis, \*perit.\*, p. 63; and Walter Warlimont, \*perit.\*, pp. 12-13.

19Halder, op cit., Yol. 2, p. 39.

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20Halder, *op cit.*, Yol.2, p. 39; also the three Belgian forts were located at Eben-Emael, Liege and Namur.

21It is not clearly understood how many Panzer and motorized units Hitler intended for these Panzer Groups. He worried about placing all Panzer and motorized forces at one main effort, south of Liege. He felt that advancing in two directions, one north and one south of Liege, would lead to a better chance for success. One must keep in mind that Hitler, not trained as General Staff officer, acted strictly on intuition. Helder, in the course of developing the final plan, eliminated this diluted main effort. The actual size of the Panzer Group employed in May 1940 consisted of three corps (two Panzer and one motorized); later Panzer groups were renamed Panzer Armies.

22 Jacobsen, opicit, p. 41.

23 Erich von Lewinski, known as Manatein, was born to a family of nine children, in Berlin, on November 24, 1887. His father was an artillery general and a member of an old aristocratic military family that produced several generals during the nineteenth and twentieth century. The von Manateins were childless and adopted Erich at an early age. Hedwig von Manatein, Erich's new mother, was his birth mother's sister. In 1906, he entered the 3rd Prussian Foot Guard Regiment and, during World War I served on General von Gallwitz's staff throughout most of the worst fighting at Yerdun. You Manatein became cunvinced that attrition warfare was obsolete. After the war he remained in the Reichaheer, and in 1935 became Army Chief of Operations under General Ludwig Beck. In 1938, after the Blomberg-Fritsch crisis, von Manatein took command of the 18th Infantry Division. General von Rundstudt managed to get von Manatein in 1939 as his chief of staff at Army Group A. You Manatein played a key role in the development of the final operational plan for the Battle of France. He commanded from corps to army group, and was parhaps the most able field general the German Army produced in the 20th century. His interests were purely professional. When the resistance movement approached him in 1942 to join in a coup, von Manatein replied that he would only participate after first being allowed to capture

Sevestopol. Hitler relieved field Marshel von Manstein in Merch 1944, because of sharp differences between the two men. He saw no further service during the war. After World War II, von Manstein tried for war crimes, was sentenced to 12 years imprisonment. After his sentence was sharply reduced, he retired to Essen. You Manstein assisted the new German Bundeswehr in "Amt Blank" and died on June 10, 1973. Keilig, op cit, p. 196; Manstein, op cit, pp. 658-659; Horne, op cit, p. 150-151; and F. W. von Mellenthin, German Generals of 'vorid war //As/Saw/hom (Norman: University of Oklahoma Press, 1977), p. 19.

23Horne, op cit., pp. 140-142; and Jecobsen, op cit., pp. 50-53.

24Horne, operit, p. 143-144; also Hitler realized that relieving the Commender in Chief of the Army at this stage of the war would have a destabilizing effect on the Army and public relations

250KW is the abbreviation of Oberkommando der Wehrmacht. Hitler created OKW to replace the Ministry of War in 1938. After Hitler relieved Field Marshal von Blomberg in 1938, War Minister and Commander in Chief of the Wehrmacht, he personally assumed the position of Commander in Chief. The position of War Minister remained vacant. Instead, Hitler appointed Wilhelm Keitel Chief of Staff OKW. This assured Hitler that the three service chiefs would answer him directly. Army staffs routinely referred to OKW as "Oben Kein Wiederstand", no resistance at the top.

<sup>26</sup>Heinz Guderian was born in Kulm on June 17, 1888. After attending the Karsruhe Cadet School and the Cadet School at Gross-Lichterfelde, Berlin, he joined the 10th Hannoverian Jaeger Sattalion in 1908. After transferring with the bettalion to Gosler in the Herz Mountains, Guderien fell in love with Margarete Goerne. When they wented to marry, her father disapproved because of her tender age, 18 years old. Guderian agreed to a two year waiting period and asked for a reassignment during this time. His father, a Generalmajor, suggested signal troops rather then mechine guns. Guderian agreed, and transferred to the 3rd Telegraph Battalion in Koblenz. His time with the telegraph battalion shaped his future ideas on warfare. In 1913 Guderian earned one of 168 slots at the Potsdam War Academu. In the same year he married Margarete. Guderian, quick on his feet, earned the nickname "Schneller Heinz", in years to come. During World War I, Guderian served as Intelligence Officer at 5th Army Headquarters, 4th Army Headquarters, and 4th Infantry Division. He served as the logistician for the the Xth Corps, and commanded the 2nd Battalion, 14th Infantry Regiment. During the interwer period, Guderian commanded the 2nd Panzer Division, and XVIth Corps. On September 1, 1939 he assumed command of XIXth Corps (renamed XIXth Penzer Corps for the Battle of France). He held numerous command positions at echelons above corps and served as the last Army Chief of Staff from July 1944 until May 1945. After his release as prisoner of war in 1948, he settled in Schoengau. Colonel-General Guderian a. D. died on May 14, 1954. Keilig, *Das Deutsche Heer,* p. 111; Horst Scheibert, *Das War Guderian* (Friedberg: Podzun-Pallas-Yerlag GMBH ), pp. 15 and 165; and Kenneth Macksey, Guderien Creator of the Blitzkrieg (New York: Stein and Day Publishers, 1976), pp. 33-37; also, Guderian's new motorized group was scheduled to be composed of one motorized division, one SS Regiment (Leibstandarte SS Adolf Hitler), infanterie Regiment "Grossdeutschland", and the 4th Light Division. Army Group A operations order, dtd November 17, 1939, the SS regiment is "Leibstandarte SS Adolf Hitler". NARS T311/246, Beilage 1 zu Anlage 1 z. H. Gr. Befehl Nr. 3 den 17. November 1939.

27According to the Task Organization for the Army Group A operations order, of November

17, 1939, the SS regiment is "Leibstandarte SS Adolf Hitler". NARS T311/246, Beilage 1 zu Anlage 1 z. H. Gr. Befehl Nr. 3, den 17. November 1939.

28 Jacobsen, ap cit., pp. 52-53.

29Haider, *op cit.*, Yol. 2, p. 48; Jacobsen, *op cit.*, pp. 52-53; Field Marshai Fedor von Bock, *Tagebuchnotizen Westen 4.10.39-9.5.40*, p. 18; also read Appendix D, Force Expansion.

30 Jacobsen, *op cit.*, p. 50-53; and Heinz Guderian, *Panzer Leader* translated by Constantine Fitzgibbon (New York: Holt, Rinehart, and Winston, 1969), pp. 67-68; also there were a total of 29 postponements of the offensive date throughout the winter and spring period of '39 -'40:

| Nr. of postponements;               | Decision date:  | Attack date:   | Nr. of days shifted:                |
|-------------------------------------|---|--|-------------------------------------|
|                                     | 5 Nov 39  | 12 Nov 39  | (7 days to deploy)                  |
| 1<br>2<br>3<br>4<br>5<br>6          | 7 Nov 39<br>9 Nov 39<br>13 Nov 39<br>16 Nov 39<br>20 Nov 39<br>27 Nov 39                          | 15 Nov 39<br>19 Nov 39<br>22 Nov 39<br>26 Nov 39<br>3 Dec 39<br>9 Dec 39   | 3<br>4<br>3<br>4<br>7<br>6          |
| 7<br>8<br>9<br>10<br>11<br>12<br>13 | 4 Dec 39<br>6 Dec 39<br>12 Dec 39<br>27 Dec 39<br>9 Jan 40<br>10 Jan 40<br>13 Jan 40<br>16 Jan 40 | 11 Dec 39<br>17 Dec 39<br>1 Jan 40<br>3 or 14 Jan 40)<br>14 Jan 40<br>17 Jan 40<br>20 Jan 40<br>some time in<br>the spring | (5 days to deploy)  2 6 15 12 - 3 3 |
| 15                                  | (6 Mar 40   | 18 Mar 40  | (24 hours to deploy)                |
| 16<br>17                            | (13 Mar 40<br>(14 Mar 40  | nothing definate<br>not before<br>22 Mar 40)   | -)                                  |
| 18                                  | (26/27 Mar 40   | probably on<br>14 Mar 40)  |                                     |
| 19<br>20<br>21                      | (10 Apr 40<br>(14 Apr 40<br>(18 Apr 40  | 13 Apr 40<br>21/22 Apr 40<br>not before<br>21 Apr 40)  | -)<br>-)                            |

| 22        | (22 Apr 40               | nothing definate | -)    |
|-----------|--------------------------|------------------|-------|
| 23        | (27 Apr 40               | betw. 1-7 May)   |       |
| 24        | 30 May 40                | 5 May 40         | -)    |
| 25        | 3 May 40                 | 6 May 40         | 1     |
| 26        | 4 May 40                 | 7 May 40         | 1     |
| 27        | 5 May 40                 | 8 May 40         | i     |
| 28        | 7 May 40                 | 9 May 40         | 1     |
| 29        | 8 May 40                 | 10 May 40        | final |
| Jacobsen, | <i>ap cit.</i> , p. 141. | ·                |       |

31 Jacobsen, ap cit., p. 53.

32Von Bock diarry, up. 10-20, coneming the dates 27 October to 15 November 1939.

33 Jacobsen, *op cit.*, pp. 148-152; von Manstein, *op cit.*, pp. 103-104; and Horne, op cit., p. 152 and 155.

34Manstein, *ap cit.*, pp. 101-103.

35 Jacobsen, *ap cit*, p. 152.

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361bid., p. 148-152; Manstein, *ap cit.*, pp. 101-103; Horne, *ap cit.*, pp. 124-125; also Robert Allan Doughty's *The Seeds of Disaster The Development of French Army Doctrine* 1919-1939 provides an excellent account of French doctrine for that time period.

37Based on Keitel's visit on 22 October, OKH removed the occupation of Holland from it's 29 October operational plan. OKH published its plan without consulting OKL. This resulted in an immediately complaint by the Luftwaffe, because it felt that once Germany violated Belgian neutrality Britain would use Dutch fighter bases. Consequently, OKW issued Directive #6 for the Conduct of War on 20 November with the following changes to the basic 29 October plan:

- The Army must occupy Holland
- b. The main effort remains with Army Group B, however, OKH must be prepared to shift to Army Group A should the opportunity arise.

On 23 November, Hitler assembled about 120 leading generals and admirals of the three services at the chancellery to explain his offensive philosophy to them. His monolog began at noon and lasted several hours. Among other things, Hitler attacked the Army leadership for not conforming to his offensive ideas. He labeled OKH as "Zossen Geister" (Defeatists from Zossen), and declared personal war on "Miesmacher" (trouble makers) who dared to oppose his aims. He praised the Luftwaffe and Navy for their achievements. The entire theme of Hitler's speech was a rebutal of von Brauchitsch's accusations of 5 November. Hitler called General von Brauchitsch to the chancellery for another meeting at 1800 hours to again denounce his Army Commander in Chief. Yon Brauchitsch offered his resignation, but Hitler refused on the grounds that he (von Brauchitsch) like any other soldier must perform his duty. Later that evening, Guderian spoke to Hitler and recommended that von Brauchitsch be relieved as a result of the Fuehrer's lack of confidence in his Army Commander. Guderian recommended von Reichenau as a replacement. Hitler, however, declined. Domarus, Hitler, Vol. II Untergang, pp. 1420-1427; and, directives referred to in the January 17, 1940 offensive date, were those issued on Oct 10,

Nov11, 15, 20, and 28, 1939

39Major Hellmuth Reinberger, a Luftwaffe paratroop officer, against strict orders, carried the top secret operational plan while on a flight from Muenster to Koeln. His pilot, Captain Erich Hoenmann, because of poor visibility, strayed into Belgian territory and, while attempting to return to the German border the ME 108 developed engine trouble. Unable to restart the engine, Hoenmann made an emergency landing near the village of Mechelen, Belgium. borrowing metches from a Belgian farmer, attempted to burn the plans behind a hedge not far from the wreckage. Hoenmann in the meantime tried to act as the sole German when Belgian officers and troops arrived. The Belgian officers, spotting Reinberger's smoke, apprehended him also. Reinberger later had another opportunity to burn additional papers when Belgian officers left him and Hoenmann unettended. The Belgians stopped him again and, finally realizing that Reinberger carried something important, confiscated the papers. Consequently, portions of the operational plan fell into Allied hands. The German military attache interviewed both officers shortly afterwards and reported that the Belylans only obtained non essential information. Hitler remeined unconvinced by the reports and postponed the offensive indefinitely. This proved fortunate for OKH because now, for the first time, an opportunity existed to fundamentally change the October 29 plan. Jacobsen, *op cft.*, pp. 93-99; Horne, *op cft.*, p. 156-157; and Halder, op cit., Yoi. 2, p. 24.

39Helder, op cit., Yol. 3, pp. 80-81; and Jacobsen, op cit., pp. 148-152.

40 Jacobsen, op cit., pp. 148-152; Guderian, op cit. pp. 69-71, During the war game at Mayen on 14 February, Halder agreed to employing XIXth and XIYth Panzer Corps side by side through Belgium. It also became apparent to the Army Chief of Staff that this armored thrust should have a separate Army headquarters. Halder chose the General Ewald von Kleist to command the armored force over Guderian. Guderian, op cit., pp. 69-70.

41 Jecobsen, op cit., p. 153; and Horne, op cit., p. 166-168.

42Lewis, op cit., pp. 94-98.

## CHAPTER THREE

### PREPARING THE ARMY

"Es kommt derauf an, ohne Ruecksicht auf Rechts und Links schneit in die Tiefe durchzustessen und den Verteidiger immer zu ueberraschen. Sperrungen und Gelaendehindernisse sind mit allen Mitteln schneit zu neberwinden eder zu umgehen."

## General der Kavallerie Ewald von Kleist

## TRAINING

Most armies experience difficulties in their first combat actions. These are usually as a result of the process of changing from peace time training conditions to the realities of war. Previous deployments of the German Army occurred during the Austrian Anschluss and the Czechoslovakian invasion and, although these actions provided interesting lessons for logisticians and organizational planners, they did not test the young army in combat. The Polish Campaign served as the actual proving ground for the German Army, and as such identified some unique problems for the German Army's General Staff. The General Staff and field commanders analyzed the Army's performance and utilized the lessons learned for improvements. It therefore becomes rather obvious why the German General Staff was so opposed to an immediate winter offensive in the West. General von Brauchitsch wanted his regular units to digest the lessons from the recent campaign, but more importantly, heatily organized divisions called up for the Polish campaign flagrantly lacked training and toughness. Reorganization and training thus became the Field Army's top priority. Continuous alerts and the coldest winter in recent history, however, prevented an orderly reorganization of forces and effected all aspects of training in a negative manner.

Before the guns of the Polish campaign fell silent, the German General Staff began to evaluate the Army's performance. It quickly became apparent that a number of problems required solutions, chief of which were training and unit cohesion. Lack of training and impetus within the army had caused the German officer corps a high proportionate number of losses in Poland. The credit for the campaign went to the senior army leadership, superior weepons, and material. German employment of Luftwaffe and Panzer formations, presented the Polish General Staff with a hopeless situation.

The German Army Chief of Staff began to evaluate the Army's performance toward the end of the Polish campaign, and thus was able to plan for and initiate changes immediately. He rejected any large scale activation of new units with the exception of five previously planned infantry divisions. These divisions received confiscated Czechoslovakian equipment since no German equipment was available. OKH originally planned for a defensive posture in the West and started reorganizing, training, and equipping forces on the Western Front. Not discarding a war of movement in the West, however, the Army General Staff planned for and expected two-thirds of the field army to quickly undertake offensive operations in the West. Thus, OKH ordered the filling of the first through fourth draft infantry divisions to full strength.<sup>2</sup>

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The accelerated build up of forces from 1934 to 1939 produced divisions with varied grades of combat efficiency. This became primarily noticable in the motorized infantry divisions when they proved too cumbersome in Poland under the 1939 organization. As a result of these deficiencies OKH, initiated organizational changes, adjusted its Tables of Organization (TOE), and reorganized motorized in a divisions from three to two regiments (see Appendix I, Tables of Organization and Equipment (TO&E)). Reducing the three regiment (mot.) infantry divisions by one regiment served to streamline that organization, and the extracted regiments were used to increase the number of it any battalions in Panzer and light divisions from three to four.

Under a long term project light divisions converted to Panzer divisions, as new tanks became available. Most of these long term changes were already in progress when Hitler presented his generals with the "fait accompli" on September 27, 1939. Acting immediately to meet the Fuehrer's goals, OKH dropped a meticulous organized transition in favor of a high speed reorganization, resulting in a non-uniformly equipped army with questionable combat efficiency.<sup>3</sup>

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On September 1, 1939 the majority of active duty divisions deployed to the Eastern Front, while several active but mostly reserve divisions deployed to the West. Typically reserve divisions had few regular army officers serving in commander and operations officer/chief of staff positions. The 58th Infantry Division for example had 300 out of 490 officers with no combat experience or training since 1918. About 90% of the troops were either World War I veterans or had only received short term military training. The operations officer/chief of staff of this division reported his unit as non combat ready in November 1939 and, unless given a rigorous training program behind the front at an army training center, predicted no change in readiness status. The 58th Infantry Division was not an isolated case, since only 11 of 35 divisions in the West were active duty divisions.4

General Halder directed his efforts at improvements not only toward the organization of the force, but also at the weapon systems and training. Initial impressions indicated problems with the MG 345, became easily dirtied by dust and mud because of delicate workmanship. Although the army adopted the weapon as standard machine gun shortly before the war, Poland served as its proving ground. Halder immediately ordered the Army Weapons Office to take corrective action. The 81 mm morter proved its worth in the short conflict.6

At the tactical level, the General Staff identified serious problems that would have to be addressed prior to the campaign in the West. Camouflage against air attack, although deemed very bad, could probably be attributed to a non-existant Polish airforce shortly after the conflict

started. Consequently, units relaxed anti-aircraft defense. Infantry tended to bunch up. Also rated low were combat reconnaissance and defensive postures by units during rest periods, especially after long marches. Halder requested his staff to look into establishing reconnaissance units at corps level. In the area of traffic control, vital to moving large motorized formations, the army also rated itself low. Police employed for the purpose of traffic control proved ineffective, prompting Halder to direct immediately the formation of a military staff solely for the purpose of traffic control. Marksmanship received excellent ratings.

Upon completion of the Polish campaign OKH began collecting official after action reports to formalize its conclusions. Although a successfull campaign, German commanders and staffs spared no criticism in their reports. Indications from all levels suggested that problems existed in the Army's performance during the Polish campaign, although, by and large the Army and the individual soldier fought well. The Army's fundamental doctrine and structure received sound ratings, but changes proved necessary.8

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Light divisions fared well in Poland against a disorganized enemy, however, OKH acknowledged the Western Allies as a more potent challenge, forcing an accelerated reorganization of all light divisions into armored divisions. Panzer and motorized formations lived up to their pre-war expectations, although, a lack of initiative plagued the ranks of mid and junior grade officers. Panzer and Infantry cooperation still left much to be desired. In one case General Guderian personally intervened at company level to maintain the momentum of an attack.9

Infantry did not show the same resilience as in 1914, and reservist units especially suffered high rates of exhaustion during long approach marches. Infantry night fighting and combat in rough terrain acquired inadequate ratings. Transition from offense to defense presented German units with difficulty, occupying linear defenses rather than the doctrinally correct defense in depth. General Halder noted in his journal, on September 14, 1939, "delaying defense"

must go. German soldiers of 1939 seemed pampered compared to those of 1914. The youth serving in 1939, were brought up under the National Socialist system and taught to think only of themselves and to be their own leaders. Hitler spent enormous sums of money to build model barracks for his new army, and treatment of soldiers became less severe and frugal compared to the pre 1914 army. Previously members of the Hitler Youth and having served six months in the *Reichsarbeitsdienst* (Reich Labor Service), these young soldiers were full of faith and ideals, however, their spiritualized principles failed to match the hardness required for battle. 10

The tremendous expansion of the German Army from '35 to '39 actually led to a decline in the overall performance of its soldiers. The relatively small Reichsheer cadre found itself incapable of singlehandedly supporting such a dramatic expansion. Too many inexperienced junior officers and NCO's conducting training resulted in an overall decrease in basic soldier skills. Trench warfare mentality still plagued some of the World War I officer veterans, stifling their reaction to mobile warfare.

The accelerated growth of the German officer corps from 1933 to 1939 diluted the junior ranks of the professional officer corps of the Reichsheer, resulting in leadership problems during the Polisii Campaign that required immediate attention. The poor leadership of junior officers therefore became a major concern of the Army's Commander in Chief after the Polish Campaign. Well trained soldiers, poorly led, are an ineffective force. The German Army officer corps grew at a tremendous rate from it's 4,000 professional Reichsheer officers in 1933 to 25,000 active Army officers in 1939. One must consider that about 500 officers of the original Reichsheer cadre transferred to the newly formed Luftwaffe in 1935. An additional 450 were medical and veterinary officers. Officers of the State Police transferred into the Army when Hitler ordered their incorporation as part of the expansion program. After the "Anschluss" Austrian officers and Czechoslovakian officers of German origin filled available officer billets. Officer candidates,

however, provided the vest majority of junior officers.12

Soldiers and NCO's, meeting necessary qualifications attended officer candidate schools. After completing the course, they returned to their units and, having demonstrated the ability to lead, received commissions. By spring of 1940, 1,500 to 2,000 officer candidates a month returned to units. In contrast, Reichaheer officers required the Abitival and received military education in the tradition of the old imperial army. This new officer corps, fragmented by old traditions and a new way of life, did not have time to solidify with a cohesive aspril de corps by 1939. During and after the Polish campaign discipline, benevior, and dress code violations, outside military installations became so rampent that von Brauchitsch ordered the formation of the Heeressireinadiensi, Army Military Police Patrols, with the sole mission of inforcing discipline and order. These units, assigned to army level headquarters, were directly responsible to the army's chief of staff and had complete authority to punish soldiers in the absence of their commanders. In February 1941, the Heeressireinadiensi became part of the Hehrmacht-Streifendiensi, Armed Forces Military Police Patrol, because each service had established its own varsion and a consolidation seemed more appropriate. The Army's Streifendiensi, however, already enjoyed full power of authority over all three branches' soldiers.14

General von Brauchitsch set the training wheels in motion by issuing the first of a series of directives to correct training deficiencies. In the directive, titled "The Training of the Field Army", the ObdH insisted commenders utilize the Iuli before the campaign in the West to perfect the Field Army's performance, discipline and cohesion. He expected realistic training for his soldiers, emphasizing soldier education and a toughening of character to ready them for the challenge of fighting a well equipped and trained enemy. General von Brauchitsch expected marked improvements in reconnaissance and security, march discipline, infantry fire discipline, preparing units for long marches, improved stamine, better cooperation between arms, offensive

and defensive tactics during limited visibility, and a clear understanding of defensive doctrine. 15

In the second half of his directive, the Army Commander in Chief stressed combat leadership in the officer corps. General von Brauchitsch expected units to train their reserve officers to the same standards as regular army officers. The general also wanted an intensified noncommissioned officer (NCO) training program, with special emphasis in the reserve NCO ranks. He demanded high standards to avoid their position as leaders, trainers, and educators from sinking as it had in the last years of World War I.16 Lastly, General von Brauchitsch, emphasizing the traditional Prussian notion, expressed his military philosophy that "discipline is the foundation of victory in both military form and courtesy". He expected this subject to receive particular attention at every school or command.17

OKH issued a second key document on October 13, aimed at reorganization at the tectical level from company down to squad. This change resulted in a significant retraining program for the Army. Based on conclusive evidence that the infantry company's organization resulted in a lack of maneuverability and too little capability in way of rapid fire weapons, General von Brauchitsch directed a reorganization of the infantry squad. Under the new organization the squad consisted of 10 men (see Appendix I, Infantry Company (motorized). Arming the squad leader with a submachine, gun rather than a K98 rifle, and issuing each squad an M6 34, significantly improved the unit's firepower. Changing the composition of the infantry squad also caused a reorganization of the German infantry platoon. Previously operating on the half platoon principle, one half of the platoon consisted of machine guns and mortars, the other half of maneuver troops. Under its reorganization the infantry platoon consisted of four rifle squads, one three man 50mm mortar section, and a headquarters section. This new organization forced lieutenants and NCOs to lead troops rather than position machine guns and mortars.

In October 1939, von Brauchitsch re-instituted a World War I monthly status report on

combat readiness at division and corps level. The significance of this report was that commanders did not have to fear retaliation for submitting unfavorable comments and evaluations. You Brauchitsch wanted to avoid mistakes of '14-'18, when the German High Command overestimated the fighting capability of frontline units. 19 These evaluation reports formed the basis of training programs for the '39-'40 winter period, and clearly implicated the army as ill prepared for a campaign in the West. You Brauchitsch expected to utilize the status reports to convince Hitler of the army's unpreparedness, hoping the Fuehrer would concede to a lengthy postponement of the offensive, and thereby provide the necessary time to correct shortcomings. 20

OKH established and supervised training programs for commanders. Von Bruachitsch entrusted company and battery commanders' training to field army headquarters, however, OKH maintained control of courses for battalion and regimental commanders. Only combat experienced officers and NCOs would fill the school staffs. OKH instituted and monitored the objective standards sat for these schools. Case studies of officers failing to show initiative during the Polish campaign became the basis for leadership instruction. As a result, OKH encouraged senior commanders to inspire junior officers and NCOs to take initiative, while at the same time not ignoring their stated orders, thus failure to display initiative became equated to disobeying an order. Compelling officers and NCOs to perform under conditions of constant physical and mental duress served to identify weak leaders.21

There were, however, problems in the implementation of unit training since must of the German Army was on the Western Front and remained on constant alert. There was also a lack of training areas along the Western Front, capable of accomodating large scale maneuvers. Units began to experience deteriorations in troop morale because of the long period of position warfare and on account of working on construction projects along the West Wall. OKH's training concept also included divisions scheduled to deploy from the east. In early November, Halder determined

that these divisions required two full weeks of intensive training to prepare for combat in the West 22

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Army commanders at all levels concerned themselves with the offensive spirit of soldiers and leaders. The Army Group B commander, General von Bock, as late as April 28, 1940 critiqued units after training exercises. During these critiques he emphasized his displeasure with "over cautious" leadership. Von Bock wanted to instill "attack, attack, attack", however, cautioned against irresponsible incitement. Most importantly, he realized the mission of his army group in the overall scheme. The deception plan depended on Army Group B gaining and maintaining pressure on the Allied armies. Success rested on aggressive leadership at all levels, but especially at company and platoon levels. Disengaging would provide the Allies an apportunity to shift forces and could possibly jeopardize the armored break through in the Ardennes and the subsequent thrust to the channel.<sup>23</sup>

In early December the Army Commander in Chief realized that an opportunity for more structured training existed, so he had OKH issue another directive to Army Groups A and B. Halder ordered accelerated training for both Army Groups and reserves through Christmas. Training focus shifted to battalion through division level exercises. Corps were to establish 10 ~12 day training courses for officers, NCOs, and prospective NCOs. Only officers having previous command experience could serve as instructors. Infantry units were instructed to train in offensive tactics under their new TO&E. Unfortunately not all units in the field had switched to the new TO&Es. XXII Corps, later Panzer Group von Kleist, complied and conducted reorganization at a double time even though the required new weapons and equipment had not arrived. Artillery units underwent extensive live fires and engineers began practicing laying and clearing minefields and river crossing operations. Since mobile warfare relied on good communications, signal units were directed to develop training programs to increase their levels

## of proficiency.24

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OKH restricted training exercises to units' present field locations or the nearest military installation. Some commanders obtained authority to remove units from front lines for training, provided designated reserves were available to fill the gaps. OKH, however, denied commanders the use of rail transport for these training activities because the Reichsbahn could not support the army. An unprecedented harsh winter and fuel shortages coupled with high usage and poor maintenance of locomotives, railroad yards, and rail lines during recent years caused a deterioration of the entire rail network. This reached alarming proportions during the winter of '39 - '40 when elements of the war industry came to a stands(1) because the Reichsbahn could not deliver coal. Only upon Hitler's orders and the introduction of Four Year Plan initiatives in early January 1940 did things finally begin to roll again. Consequently, OKH imposed limits on distances of troop movements to preclude over ambitious leaders from going to extremes. Marching units could not move further than two night marches and motorized units no more than one night march. General von Brauchitsch privately discussed his concerns over training with his chief of staff. He feared commanders would place their sole focus on training behind the front. Yon Brauchitsch, well aware of problems associated with training in the vicinity of the frontier, informed Halder that some units would just have to accept the circumstances and train at the Front.25

Engineers, destined to carry a heavy burden in the coming offensive, received special instructions to conduct waterborne assaults and bridging operations at predetermined locations along the Rhine and Moselle. However, much of the engineer bridging equipment consisted of captured stocks, resulting in many engineer units having to dedicate valuable training time just familiarizing themselves with this equipment. Regimental engineer commanders of army level headquarters supervised these training and exercise activities, 26

The German General Staff was well aware of the numerous water obstacles in the path of the advancing armies. The Army, however, experienced an acute shortage of both engineer personnel and equipment that could not be remedied until February or March 1940. As a result OKH issued orders in the spring of 1940 to train infantry units in engineer assault tasks. This freed sufficient engineers for the technical requirements of bridging, but placed a tramendous burdon on the infantry to conduct its own sapper missions. Motorized machine gun bettalions, often operating essependently without help from engineers, became the first units to undergo special engineer assault training. These units trained in the removal of explosives from barriers and clearing mine fields. Each infantry platoon trained one machine gun crew as assault engineers. Thus, when needed, one NCO and five enlisted men per platoon or nine NCO's and 45 enlisted men per battalion were capable of filling the assault engineers' role. Each motorized infantry company, in addition to it's normal equipment, carried 20 shaped charges, 10 satchel charges, 540 handgrenedes, 18 mine detectors, 36 rolls of white engineer tape, an assortment of blasting caps, and a variety of materials to rig explosives and clear and mark paths through mine fields.<sup>27</sup>

Reviewing the enormous training requirements, OKH became increasingly concerned with the unauthorized use of military vehicles. A number of factors contributed to this concern: a shortage of petroleum, poor road conditions, a shortage of vehicles, low maintenance standards, and poor driving standards of soldiers. General von Brauchitsch figured that officers and soldiers were using military vehicles to visit wives and girlfriends, while training in rear areas. General Helder discussed possible solutions with army group commanders.43

The '39 -'48 winter, the worst in several years, caused an inordinate amount of frost damage to roads on the Western Front. As late as 15 April 1940, frost levels extended 60 cm below the surface. In the 12th and 16th Armies' sectors road conditions became catestrophic causing numerous accidents. Drivers, poorly trained and unaccustomed to winter road conditions,

were incapable of coping with the situation. As a consequence, OKH required commanders to solve traffic problems and deployed road construction battalions to repair demaged roads. In 12th Army's sector these units replaced 330 km of road on the Main Supply Route (MSR) alone 29

In response to traffic accidents caused by poor road conditions, maintenance, and driver discipline, Army Group A issued supplemental traffic regulations and a strict policy on vehicle usage. It ordered units to consolidate and coordinate all truck movements to eliminate one stop, one mission type hauls. Dispatch authority became an officer function and roadside spot checks enforced the new rules. Poor driving habits and road conditions, however, were not the only contributors to decreased unit readiness.30

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Decreased readiness caused by bad maintenance, a result of repair part shortages, and low training standards of maintenance crews also contributed to this dilemma. In a report submitted to Army Group A in January 1940, 12th Army's commander clearly stated his maintenance problems and questioned his army's ability to perform offensive missions. The immediate impact of these maintenance problems resulted in 12th Army's inability to transport properly and resupply itself for an offensive. One of 12th Army's infantry divisions, during a no notice night march on 14 January, had several trucks break down because of maintenance failures and, accidents caused by icy roads could have been avoided through proper reconnaissance. In a letter to his corps' commanders, Colonel-General Wilhelm List32 placed the blame on poor leadership by junior officers. Had officers taken the initiative to reconnoiter routes, he summized, then ice covered sections would have been identified and covered with sand prior to movement. General von Bock on several occasions echoed similar impressions to von Brauchitsch and Halder regarding his Army Group.33

A combination of bad road conditions, negligent management, and stupidity resulted in units not receiving desperately needed parts. In one instance a depot returned parts requests to units

submitted during the Polish Campaign for not using proper request forms. Fortunately the affected division commanders mentioned this to General von Bock during one of his visits, who immediately brought the problem to the attention of General Halder.<sup>34</sup>

Measures initiated to educate officers, NCOs, and soldiers on maintenance aided in alleviating the problem, but vehicle shortages remained. The German Army as whole only received 1,000 replacement vehicles per month. As a result infantry divisions resorted more and more to horse drawn transportation, since motorized divisions had priority for motor vehicles.<sup>35</sup>

During the winter General Halder developed a plan for extended training periods in the event of a six to eight week postponement of the offensive. This in fact occured after the Mechelen Affair. Thus the new directive issued by OKH on January 19, 1940 established the tone for training well into spring. Prior to the Mechelen Affair, the Army virtually remained on continuous alert because Hitler postponed the offensive every seven to ten days. Assault divisions, stationed at their home bases in many cases required a seven day (six night marches) deployment into their assault positions along the border. One can only imagine the turmoil these elects caused on a routine basis. Eventually the army group commanders convinced OKH to deploy assault divisions closer to the frontier, resulting in significantly reduced transit times. Deployment was thus reduced to five days, and later to 24 hours once assault divisions moved into permanent deployment areas along the western frontier. Even after February 1940, however, entire divisions including motorized and Penzer divisions, and a number of their commanders, remained east of the Rhine training, 36

OKH in the January 19 memorandum stressed training as the prime objective for the immediate future of the Army on the Western Front. Halder ordered the movement of several motorized infantry divisions and infantry brigades of Panzer divisions of Army Groups A and B to training centers at Ohrdruf, Gross Born, Grafenwoehr, Senne and Altengrabow respectively for

three week rotations. The infantry units during these rotations practiced assaulting fortified positions. Rail transport, now a necessity, became immediately available.37

In an effort to use properly limited time and to provide realistic training, General Halder ordered selected units to provide aggressor forces for Army Groups A, B, and C from 5 to 12 february. After February 12, field units provided their own aggressors. Company and battery commanders continued attending their respective schools, and battalion commanders of motorized units attended a special course from 5 to 24 February under the direction of the armored school commander. First Panzer Division had to provide one Panzer battalion, one battery of artillery, and one engineer company as a school detachment. Tenth Panzer Division, likewise, provided a battalion staff, signal platoon and an anti tank battalion for the same purpose. The Army Chief of Staff maintained great emphasis on training until the campaign against France opened on May 10, 1940. Training, however, was not the only issue that preoccupied German staffs.<sup>39</sup>

## The MAIN EFFORT and PANZER GROUP von KLEIST

The main effort, *Schwerpunkt*, a hotly contested issue in the planning process throughout the '39-'40 winter, was finally resolved by General Halder in his February 24, 1940 operational plan. He placed the main effort in Army Group A's sector, employing armored and mechanized forces in a magnitude heretofore unimagined. Convinced that this armored force required a separate headquarters, OKH activated Panzer Group von Kleist, commanded by General-Colonel Ewald von Kleist, 40 on March 7, 1940 and placed it under Army Group A. The Panzer Group consisted of five Panzer divisions, three motorized divisions, and numerous General

Headquarters Troops41, organized into three mobile corps (see appendix B, OKH Order of Battle for the Battle of France).42

General Halder relied on his intelligence section, Foreign Armies West, to provide accurate information on Allied forces and intentions in order to formulate his decision. As previously mentioned, the Army Chief of Staff, as early as November/December 1939 viewed the Ardennes as weakest point along the Allied front. 43 The war games of 27 December 1939 and 12 January 340 led OKH to believe that the Allies would most probably deploy their main forces toward the Dyle River in northern Belgium, in anticipation of the German mair effort in that region. 44

German intelligence located and identified the Allied reserves spread thinly across the enemy's entire rear area. Based on this information, OKH's Foreign Armies West section made several important assumptions. It meant the Allies were incapable of quickly reacting to the German main effort, and secondly, once identified could not employ a masse de maneuvreagainst Army Group A's left flank. German intelligence drew a fairly accurate picture of the enemy's situation, which totally supported OKH's operational plan of February 24, 1940.45

By late April 1940, however, German intelligence gathered enough information to positively identify 82 of 96 suspected French and British divisions along the northeastern front, providing a nearly complete image of Allied intentions. Earlier assumptions about Allied reserves proved correct. The weakest point along the western Front remained with the French 9th Army's third rate divisions defending the sector between Sedan and Dinant. Facing von Bock's Army Group, the French employed their 1st Army Group made up of a majority of active duty divisions, prepared to advance north to meet the expected German main effort. These divisions were deployed for movement, not for defense. Along the Maginot Line the French employed the 2nd Army Group, estimated to be greatly overstrength.46

Foreign Armies West not only provided the necessary information on France, but also on

Belgium. It identified the 1st Chasseurs Ardenneis47 as defending the entire frontage of the Ardennes, and the 1st Cavalry Division was being observed in St. Hubert. German intelligence experts reckoned that, based on the disposition of Belgian forces, they would fight no more than a delaying action, hoping for a quick intervention by the Allies. This was confirmed shortly before the investon, when a signal unit intercepted Belgian radio traffic discussing a planned Belgian relaying action from the frontier to the second defensive belt, along the line St. Hubert-ichateau-Mellier, as soon as the German offensive started. In essence, Foreign Armies West provided the Army Chief of Staff with the information to make the necessary decisions, almost guaranteeing little or no French interference on the first and possibly even the second day of Panzer Group von Kleist's advance through the Ardennes. The success of the operation inherently depended on the surprise advance through the Ardennes and it seems that the prerequisite hed been met.48

The February 24 OKH plan called for Army Group A's employment of deeply echeloned mobile forces to advance toward the Meuse River sector between Dinant and Sedan. Employing the element of surprise, these forces were to quickly gain a bridgehead west of the Meuse River, thereby establishing preconditions for the continuation of an advance to the English Channel. Having designated Panzer Group von Kleist as the main effort, Army Group A issued the following mission to General von Kleist: "Penzer Group von Kleist, as lead echelon of Army Group A, advancing in front of 12th and 16th Armies (Yianden-Echternach), attacks in deep echelonment through Luxembourg-southern Belgium. Employing surprise and rapid movement, the Panzer Group, with the main effort on both sides of Charleville-Mezieres, secures the west bank of the Meuse River between the Semois River (where it feeds into the Meuse) and Sedan. Subsequently, Panzer Group von Kleist continues it's attack to Abbeville and the Channel coast." The key to Penzer Group von Kleist achieving operational surprise, rested in its unexpected arrival, in great

numbers, along the Meuse River.49

Upon assuming command of the Panzer Group, General yon Kleist first addressed the problems of command relationships, equipment readiness, echelonment of the Panzer Group, and traffic control. Yon Kleist's immediate goal was to solve his command relationship. His Panzer Group's deployment area was amidst 12th and 16th Armies. He would also have to pass through these infantry armies to assault positions and, subsequently advance directly in front of them. General List, commanded 12th Army to the north of Panzer Group von Kleist, and General of Infantry Ernst Busch<sup>50</sup>, commanded 16th Army to the south. Each army commander demanded the Panzer Group be under his own operational control. General von Kleist, however, viewed a subordination to an infantry army as a restraint on his operational mission and his freedom of maneuver. He concluded that the Panzer Group should remain directly responsible to Army Group A. After several briefings and discussions between the infantry army commanders, von Kleist and Army Group A's commander, General von Rundstedt, the latter decided that as long as the Panzer Group maintained operational freedom it would remain directly under Army Group A. Should, however, the Panzer Group lose the initiative and find itself bogged down and entangled with stiff infantry resistance in front of one of the infantry armies, it would transfer to one of the infantry armies.51

Army Group A confined Panzer Group von Kleist's advance to a narrow front, with one corps leading, thus forcing the Group into a deep echelonment of the entire Panzer force. Dissatisfied with this arrangement, von Kleist discussed the echelonment with von Rundstedt. Von Kleist recommended an advance of two corps abreast (XIXth Panzer Corps and XList Panzer Corps, commanded by General Georg-Hans Reindardt52) followed by the XIYth Motorized Corps, commanded by General Gustav von Wietersheim.53 General von Rundstedt disagreed and directed echelonment in depth, XIXth Panzer Corps leading, followed by XList Panzer Corps and XIYth

Motorized Corps. Although tactically more feasible, von Rundstedt rejected von Kleist's approach because of traffic control problems. Thus XLI Panzer Corps would have to follow XIXth Panzer Corps through Luxembourg before shifting to Guderian's right flank for the breakthrough at the Meuse. (see appendix F, echelonment sketch).54

Traffic control, previously identified as a problem during the Polish campaign, presented a monumental challenge once OKH published the operational plan in late February 1940. Panzer Group von Kleist, spearheading the offensive in front of 12th and 16th Army would have to negotiate a very difficult piece of terrain known as the Ardennes Forest. The Ardennes Forest, covers vast areas of eastern Belgium, the Grand Duchy of Luxembourg, and the French department of Ardennes. It forms an area of about 2,600 sq. km (1000 sq. miles) and is disected by deep narrow valleys and gorges. Several rivers create formidable obstacles. Its dense forests offered only narrow roads and trails interlaced with the streams, deep valleys, and gorges creating a planners nightmare. The most difficult terrain of the Ardennes lay in the path of Panzer Group von Kleist. 55

The German General Staff planned to employ Panzer Group von Kleist, as lead echelon through the Ardennes with 134,000 soldiers, 41,000 motor vehicles, 1,250 tanks, and 362 reconnaissance vehicles. Massing and employing these forces without alarming the Allies and tipping the German hand, introduced special traffic problems. Commanders agreed that the slightest slowing of these forces, once the advance began, presented a potential dissaster. To ensure success, Army Group A's and Panzer Group von Kleist's staffs conducted a thorough road analysis, developed special traffic control plans, published detailed traffic control orders, and disseminated information down to the last soldier,56

## TRAFFIC CONTROL

The deployment of 42,000 vehicles and tanks into forward assembly areas and then rapidly moving them through the confines of the Ardennes presented the General Staff with serious concerns. Since this was the first time a mobile force of this type had ever been assembled, no institutional knowledge existed. The Polish Campaign, on a much smaller scale, demonstrated a need for tight traffic control, however, until OKH issued the operational plan on February 24, 1940 no one imagined the magnitude of this traffic problem. General Halder provided General von Rundstedt, as well as the other two army group commenders, full authority to deal with traffic control.

Positioning of forces along the western frontier presented unique challanges to Army Group A's planners. Infantry armies, occupying the defensive line along the border, required garrisons and towns stretching 40 km east. The Panzer Group therefore deployed east of the infantry armies, creating the first major dilemme: movement of the Panzer Group through the infantry prior to the offensive. Panzer Group von Kleist's deployment area (Daun, Bernkastel, Idar/Oberstein, Giessen, Marburg), amidst and immediately to the rear of 12th and 16th Armies, was about 75 km in breadth and 250 km in depth. The immediate implication of this arrangement was that Panzer Group von Kleist, designated main effort, exercised no control over the road network it required for movement to forward assembly areas. The Army General Staff wanted the Panzer divisions deployed without alarming the Allies, and also in a way to aid rapid integration and movement to the border assembly areas. To facilitate this planning Group A agreed to deploy XIXth Panzer Corpa west of the Rhine River, leaving the remainder of the Panzer Group east of the Rhine.

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Army Group A provided the Panzer Group with four Tactical March Routes (TMR) as thoroughfares for combat formations and one Main Supply Route (MSR) for movement from

deployment areas to the frontier, through Luxembourg, and Belgium. Panzer Group von Kleist assumed control of these TMRs the afternoon prior to attack day (D-Day), and would be the only authorized formation on these roads. On a single TMR, Panzer Group von Kleist would have occupied a road distance of 1540 km. Von Kleist's staff, assigning TMRs to the Group's corps in support of the echelonment, reduced the column length to 300-500 km on each TMR (see Appendix B, March Routes). The following schematic shows a disposition of forces along the Tactical March Routes:

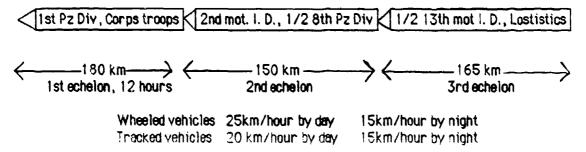
TMR A (Geichlingen): 2nd Pz Div, 6th Pz Div, and 1/2 8th Pz Div

TMR B (Wallendorf): 1st Pz Div, 2nd mot. I. D., 1/2 8th Pz Div, and 1/2 13th mot. I. D.

TMR C (Bollendorf): 1/2 10th Pz Div, Inf Regt "GD", and 1/2 13th mot. i. D.

TMR D (Echternach): 1/2 10th Pz Div and 29th mot. I. D.

Example: Tactical March Route B:



Although Panzer Group von Kleist enjoyed exclusive use of the four TMRs, many infantry units ultimately needed to cross them, thus creating the possibility of confusion and traffic snarls.58

Through a series of war games testing possible traffic control measures, Army Group A catagorized traffic control in two major areas: traffic control in deployment areas in Germany and traffic control in enemy territory. In Germany traffic control remained under the control of Army Group A, but became the responsibility of corps and divisions upon entering enemy territory. The Panzer Group, however, received sole responsibility for traffic control of its four TMRs from D-1 until the entire Group passed through, at which time control reverted to Army

# Army Group A.59

General von Kleist personally conducted a reconnaissance of the four roads and, noting a poorly marked road network, directed his chief of staff, Colonel Kurt Zeitzler, 60 to design a thorough traffic control plan incorporating strict instructions and rigid time tables (see Appendix B, March Routes). You Kleist's staff, with some previous traffic control experience from Poland, devised ingenious methods for controlling the flow of the Penzer Group's 42,000 vehicles. All four TMRs became one way traffic routes to the west. Only special designated messengers, medical, and fire fighting vehicles received authorization to drive in an easterly direction. The Group ordered all assigned and attached vehicles marked with a white "K" on the right front and left rear fender to facilitate identification. The Group issued code words for quick identification to all units designated to use a TMR. Code words also served to re-route lost drivers to the correct TMRs. Fixed wing Fieseler Storch aircraft, employed as airborne traffic patrols, provided immediate reports and updates to von Kleist's headquarters.

Not all units of the Panzer Group deployed along the four TMRs, surfacing a traffic control problem for feeder roads. The Panzer Group with only enough assets to control the four TMRs, requested assistance from Army Group A and the latter agreed to the Panzer Group's divisions controlling traffic from deployment areas, on designated feeder roads, to their main TMR. The Panzer Group also requested assistance for control of Rhine bridges, since two thirds of its units deployed east of the river. The military commander of Koblenz, ordered to support the Panzer Group, provided the necessary assistance. Once the Panzer Group passed all its vehicles through, traffic control on the four TMRs reverted to the 12th and 16th Armies. The Panzer Group maintained control of its MSR. You Kleist left the administration of traffic control west of the border to his corps commanders who delegated the responsibility to division commanders. Traffic restrictions remained until contact with the enemy, when tectical requirements would supersede

### all traffic restrictions.62

Army Group A provided Penzer Group von Kleist with two military police (MP) bettalions to control the four TMRs and the MSR. The Group placed one MP company commander, reinforced in some cases to bettalion strength, in charge of each TMR. The TMR MP commanders' mission was to keep the roads open and traffic moving, while preventing unauthorized units from using the TMR. TMR commanders, aided by local police authorities, could draw on additional male personnel living in villages along the routes to assist in their mission. Traffic checkpoints, established as reporting stations, screed as a means of controlling units, re-routing traffic if necessary. TMR commanders after conducting thorough reconnaissances of their routes and using a color code system identified and marked all danger areas along the roads. Maintenance units positioned at danger areas assisted in accidents and other mishaps. Regular infantry divisions, expressly forbidden to use the Panzer TMRs, however, had to cross them on a northeast to southwest direction. This presented a problem of some magnitude even though infantry commanders received specific orders to only cross the roads in "very small elements" through gaps between tanks.63

In an effort to facilitate movement and traffic control beyond the designated end of the TMRs von Kleist's staff with Army Group A's approval, extended the merch routes as follows:

TMR A: continues to Harlingen, Longlier and Membre.

TMR B: continues to Martelange and Neufchateau.

TMR C: continues to Attert and Florenville.

TMR D: continues to Arlon and Bellefontaine.

Following established rules, the roads remained one way traffic west. The two center TMRs, designated MSR's once XIXth Panzer Corps passed through, became the responsibility of the two MP battalions.64

The traffic control plan ensured Panzer Group von Kleist's orderly movement to the border, through Luxembourg, and into the immediate frontier area of Belgium. Intelligence sources, however, identified the construction of obstacles along the narrow restriced roads through Luxembourg. Foreign Armies West also identified the bridges along the four march routes between the Belgian border and the Meuse River as possible bottle necks. Based on the intelligence reports, the war games that incorporated representive obstacles, and realistic assessments made by commanders within Army Group A and OKH, all agreed that the vital bridges and obstacles needed to be secured forward of the advancing Panzer forces.65

## **OPERATION NIW!**

War games in early January 1940 clearly linked success of an armored breakthrough in the Ardennes to surprise and speed. Planners determined that Luxembourg would fall rather quickly. Belgium, with enough warning however, would occupy prepared defensive positions along Belgium's first defensive belt on the Belgian-Luxembourg border. German intelligence sources identified numerous bunkers and fortifications along the four designated TMRs which could possibly slow the Panzer divisions. The fortification at Bodange caused planners the greatest concern.

In January, XIXth Corps coordinated with the Luftwaffe on the availability of Airborne forces to aid the corps in its speedy drive through the Belgian defensive belt. After consultation with Field Marshal Goering, a Luftwaffe staff officer briefed the XIXth Corps Chief of Staff, Colonel Walther Nehring 66 on the Luftwaffe's response. The officer proposed the use of 100 Fieselar Storch aircraft67 to transport about 180 men behind the Belgian defensive line. Once on the ground soldiers could attack and secure specified targets from the west, in the enemy's rear,

assisting the Panzer divisions with their advance from the east. Fieseler Storch sircraft, the staff officer reasoned, could transport initial assault elements to seize landing zones, followed by gliderborne troops. With Luftwaffe airborne and airlanding units already scheduled for committeent in northern Belgium and Helland, he recommended that XIXth Panzer Corps use slaments of the elite motorized Infantry Regiment "Grossdeutschland" or Leibstanderte "SS" Adolf Hitler 68

Continued emphasis on a mission of this type and further staff studies resulted in the corps adopting the Luftwaffe's "poor man" solution and selecting one bettalion of "GD" to carry out the operation. Guderian appointed Lieutenant-Colonel Eugen Garski and his 3rd Battalion for the mission. In late February, Garski moved his 400 man battalion to Crailsheim to begin familiarization training with the single engined aircraft.69

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Planners initially developed two options for the employment of the Garski bottalion. Option one, code named "Operation NiWi", entailed air assaults near the towns of Nives and Witry, about 15 km inside Belgium to (see Map one, p. 67): a. disrupt communications and traffic between Neufchateau and Bastogne, and Neufchateau and Martelange. b. prevent Belgian units in Neufchateau from reaching their first defensive line. c. attack the Belgian bunkerline at Bodange from the west to assist 1st Panzer Division in its breakthrough of the fortifications from the east. German planners conceived the second option, code named "Operation Rosa", as a raid to secure the Saur and Alzette River bridges along the four TMRs. The execution of option one depended on the situation at the Saur and Alzette River bridges. If intelligence determined that the bridges were rigged with explosives for destruction, Operation Rosa would take priority over Operation NiWi. Without control of these bridges, XIXth Panzer Corps did not want to risk Garski's men on such a deep operation. Although well aware of the consequences of a hold up at the bridges, Colonel Nebring favored Operation NiWi from the start. In mid April intelligence sources provided the

necessary information saying to go ahead with Operation NIWI.70

LTC Garski's men spent early March training in air transport and air assault techniques. The Fieseler Storch, not designed for nor previously used in this manner, offered everyone a chance to learn, develop, and employ a new technique. General of Filers Hugo Sperrle71, Commander of Air Fleet III (Luftflotte III), whose organization supported Operation NIWI, visited Garski at Crailsheim in mid March to observe training. Sperrle, considered the support of Panzer Group von Kleist, specifically XIXth Panzer Corps, one of his primary missions in the initial phase of the offensive. To assure proper support the Luftwaffe assigned a special liaison officer, Major Foerster, to Garski's bettalion. Foerster had a two fold mission: "coordinate and/or request all Luftwaffe assets during training and, as air mission commander, command and control the actual air operation". Garski would assume control once the aircraft landed at the Landing Zones (LZ). In his capacity as air mission commander, Foerster in conjunction with Garski, made all air related decisions and selected the LZs (Map two, p. 68).72

Foerster and Garski decided to divide the battalion into two assault groups, MORTH and SOUTH, designating "Group SOUTH" the main effort (table one, p. 59), as a result of aircraft availability and a mutual study of the overall operation. Garski assigned Captain W. Krueger to command "Group NORTH". Because of the limited capability of Fiessler Storchs, Garski planned to transport his forces in three lifts. Since Garski's people would operate well outside of friendly artillery range, Foerster secured two groups, Staffein, of Stukes as airborne artillery and some transport aircraft for resupply (table two, p. 60).73

Garski's men completed familiarization training with the aircraft at Crailsheim in early April. Their next step in preparation for their mission would take them to Baumholder Training Center, an Army maneuver area, for intensified ground combat training. At Baumholder the battalion trained rigorously, assaulting mock fortifications and neutralizing bunkers.

Baumholder, an excellent training facility, also simplified the battalion's drive to the airfields at Bitburg and Deckendorf on D-1. Garski's battalion required 110 trucks to transport men and equipment.74

TABLE ONE75

| "Operation NIWI"  |   |  |  |  |
|---|---|--|--|--|
| Group NORTH   | Group SOUTH   |  |  |  |
| OIC: Captain W. Krueger 1 infantry company 1 Machine gun squad 1 Engineer squad 1 Signal squad with a 5 Watt wireless radio for communication with Group SOUTH. 42 Fieseler Storch aircraft Departure airfield: Bittburg Landing Zone: vicinity Nives | OIC: LTC Gerski Battalion staff 1 Infantry company 1 Machine gun squad 1 Morter platoon (3 x 8 cm morters) 2 Engineer squads 1 Signal squad with a 5 Watt wireless radio for communication with Group NORTH and one 15 Watt wireless for communication with XIXth Panzer Corps. 56 Fieseler Storch aircraft Departure airfield: Deckendorf Landing Zone: vicinity Witry |  |  |  |

While Garski's battalion trained at Crailsheim and Baumholder the staffs of Panzer Group and XIXth Panzer Corps developed detailed plans for the secret movement of the unit from Baumholder to the airfields. The aircraft were not scheduled to arrive at Bitburg and Deckenoorf until late afternoon on D-1. In order to maintain the secrecy of the operation, the Luftwaffe did not alter the configuration of the aircraft prior to arrival at the airfields. Loading and rigging 76 of the aircraft would have to be accomplished by Garski's men, once transported to the airfields. During training it routinely took four to five hours to rig and load the small aircraft. Garski therefore urged XiXth Panzer Corps to devise a plan to move his troops to their respective airfields no later than 1415 hours on D-1. This would allow time for the necessary rigging and

for leaders to attend a final briefing.

The German Army in the west began its movement from deployment areas to assault positions at H-18, causing Gerski to compete for the same road space (see Appendix B, March Routes/Time schedules). Attempting to avoid a TMR conflict and to maintain a vail of secrecy

TABLE TW077

| AIR ASSAULT ORGANIZATION  |   |  |  |  |
|---|---|--|--|--|
| Close Air Support   | Logistics/Communication/<br>Reserve forces  | Assault Element  |  |  |
| No fighter cover<br>2 Squadrons of Stukas<br>Junkers 87 as<br>airborne artillery<br>(~ 24 aircraft) | 3 x Junkers 52 for ammo<br>resupply (parachute drop)<br>2 x Fieseler Storch as<br>back up aircraft, reconnaissance,<br>and airborne communication | Elements of<br>3rd Battalion,<br>Infanterie Regiment<br>"Grossdeutschland"<br>98 Fieseler Storch<br>aircraft |  |  |

around Operation NIWI, XIXth Panzer Corps agreed to notify and transport the 400 men well ahead of the rest of the army. This also meant that XIXth Panzer Corps required earlier notification. Garski's vehicles, after dropping the troops at the airfields would filter in behind 1st Panzer Division for link up with the battalian on the objectives.<sup>78</sup>

The last update briefing at 1900 hours on D-1 revealed only two significant changes. XIXth Panzer Corps, worried about compromising the main effort of the entire operation, decided to hold Stuke support back until the air assault landings were complete. Fearing that confused German soldiers could mistakenly fire on the Fieseler Storch planes both going and coming, Foerster and Garski requested that ground units along the flight paths be briefed. The corps agreed to release a message through Panzer Group von Kleist requesting all units to brief their soldiers about the low level flights of the Fieseler Storch formations. Returning to their assault groups, Garski and

Krueger briefed their soldiers one last time. The two leaders would not speak to each other again for the next 21 hours until their link up inside Belgium.<sup>79</sup>

# **XIXTH PANZER CORPS**

When OKH published the final version of the operational plan, it became apparent to XIXth Corps' staff that it would form the point of the spearhead in the western offensive. The corps controlled 1st, 2nd and 10th Panzer Divisions, infantry Regiment "Grossdeutschland", and a variety of corps support units. Guderián immediately had his staff establish an intensive training program for his divisions, since the offensive would surely commence in early spring.80

Guderian and his chief of staff understood the requirement of impressing upon their junior commanders the necessary initiative to conduct mobile warfare. A clear understanding of the commander's concept and aims were a prerequisite for every leader. A rigorous training program ancouraged leaders to exercise initiative and to become experts in their fields. The intensified training period from February to May 1940, saw General Guderain continuously visiting units at various training centers throughout the Reich.81

The Polish Campaign successfully demonstrated the multiple capabilities of the Luftwaffe's Flak Artillery (anti-aircraft). Army commanders realized the potential of the 88mm Flak guns as back up artillery. More importantly, however, the army viewed the 88mm Flak gun, with its pin point accuracy as a decisive weapon to combat tanks and ground targets. Thus, anti-aircraft gun crews trained not only in their traditional role, but also practiced firing at ground targets. The Luftwaffe's 88mm gun crews of the 1st Flak Corps<sup>82</sup>, placed under operational control of Panzer Group von Kleist for the offensive, followed this training pattern at the Ahrbrueck Luftwaffe training center. The Panzer Group relied upon the Flak Corps to provide effective anti-

aircraft cover, engage enemy tanks, and neutralize enemy bunkers. The troops of 1st Flak Corps, in their support of Penzer Group von Kleist, experienced tremendous physical demands during the advance to the Meuse River. Ground and anti-eircraft roles alternated altogether too rapidly. In many cases units had to occupy positions three and four times a day. Because of the rapid advance of the armored forces, Flak units proved unable to rest. Day and night, Flak units moved forward on the TMR's to provide the air umbrella for the Penzer Group, or to occupy assembly areas for the following day's operations. On numerous occasions single gun crews were called upon to engage enemy tanks or points of resistance along the TMR's.83

XIXth Penzer Corps, through several map exercises, resitzed that in addition to Operation NIWI, only well trained and properly equipped engineers would be able to maintain the momentum of the advance. Infantry and assault engineers practiced many river crossings in rubber boats. Construction engineers exercised bridging operations and ferried tanks and mechanized vehicles across the Moselle River in an effort to perfect their skills. The crossing sites served as dress rehearsals, since they resembled actual sites on the Meuse River. XIXth Panzer Corps alone possessed five engineer battalions and nine bridging companies for the advance through the Ardennes. (see Appendix G, Bridging Operations). As Guderian gathered new ideas at each exercise, he passed the information to his planners at corps headquarters for dissemination and implementation throughout the corps.84

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Guderian, was familiar with the terrain in the Ardennes from his World War I experiences and he realized the potential for disaster in this constricted area. Directing purposeful questions at junior leaders and providing them with candid assessments of their performances, Guderian trained leaders to make quick estimates of the situation and draw proper conclusions. He became affectionately known as *Der Schnelle Heinz* (fast Heinz) because he appeared, disappeared, and respected at the same training exercises, travelling tirelessly from one training center to

In spite of the well prepared training of the divisions, mejor hurdles still lay in the way. Guderian's Panzer Corps, although ranking number one on the priority list for the modern Panzer types Mark III and IV, did not receive the tanks on time. Finally, when the tanks were delivered on March 12, they cams direct from the factories without the necessary break in. Worse yet, with so few Mark III's and IV's in the divisions, commanders tended not to used them in training exercises, only operating with the old Mark I's and II's. When General von Kleist, visiting Guderian's headquarters on March 14, was briefed on this subject the old gentleman's temper flared. Guderian briefly outlined a training program designed to remedy the situation. He estimated that drivers would complete training by March 24, followed by crew level training, a live fire, and company and battalion maneuvers. General Guderian essured his boss that everything would be accomplished by mid April. Yon Kleist, remained extremely upset, unable to determine whether to admonish Guderian for failing to initiate a proper training plan earlier, or the Army General Staff for not ensuring timely deliveries. Nevertheless he ordered company and battalion level training at Wahn and Baumholder.86

War games, previously discussed as a means to identify and solve problems, greatly sided the various staffs in their preparation for the upcoming offensive. During one of the war games organized by XIXth Panzer Corps in early March, Colonel Nehring observed a problem that could have had far reaching consequences: the army and the Luftwaffe used different types of maps. Army locations for Close Air Support (CAS) did not match Luftwaffe locations. Additionally, lengthy CAS requests failed to provide sufficient information. In need of a quick solution, Nehring had his Operations Officer, Major Fritz Bayerlein<sup>87</sup> design a special map and support request for

common use. Bayerlein's new, shorter CAS request, consisted of only five items.<sup>88</sup> (see Appendix J, Close Air Support Request)

Shortly after issuing this CAS directive, 1st Panzer Division decided to become innovative. The division operations officer requested permission for his Panzer crews to talk directly to Stuka pilots, to guide them to their targets, and secondly, to identify the friendly line of troops. Interestingly, the Close Air Support Element Commander ( Nahkampfluehrer //) rejected the first proposal on grounds that the still technically inferior equipment would not allow this and, that he did not want ambitious young tank commanders to divert Stukas destined elsewhere. On the second issue, purple or red smoke grenades or swastika flags became markers for identifying friendly troop locations.89

One other major problem, that Guderian's staff as well as von Kleist's pondered, was how to handle resupply. The Penzer Group brought this problem to the attention of Army Group A in early March. The latter managed to secure an additional three motor transport battalions for the Panzer Group. Both Panzer corps received one battalion, while the third remained in reserve. This provided XIXth Panzer Corps with an additional 1600 tons of hauling capability. A Panzer or motorized division required 49,735 gallons of fuel for every 100 km. Planners also determined that during the breakthrough operation units would need to be refueled and rearmed several times. As a result, OKH established fuel storage areas close to the border, so that units could fill up and cross the border with full tanks of gas. Several trains consisting solely of Class I, III, and V90 were held ready for immediate movement into Luxembourg to provide a forward resupply base. Each tank carried extra 20 liter fuel canisters ( Verry cans) that crews discarded when empty. Follow-on service units eventually recovered the canisters.

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In early March, the Quartermaster (*General-Quartiermeister (Gen-Qu)*) of the Army General Staff, Colonel Eduard Wagner92, reported to General Halder that the possibility of

resupply by air, in addition to the ground motor transport battalions, was feasible. Wagner estimated that by D+4 a group of 50 Ju 52 transport planes could transport 100 tons of fuel to forward Panzer elements. One such lift provided sufficient fuel for one Panzer division to travel 75 km. In the absence of airfields the Ju 52's would drop supplies by parachute. To minimize demage to parachutes and containers during recovery operations XIXth Corps requested parachute rigger personnel to conduct classes on the subject.93

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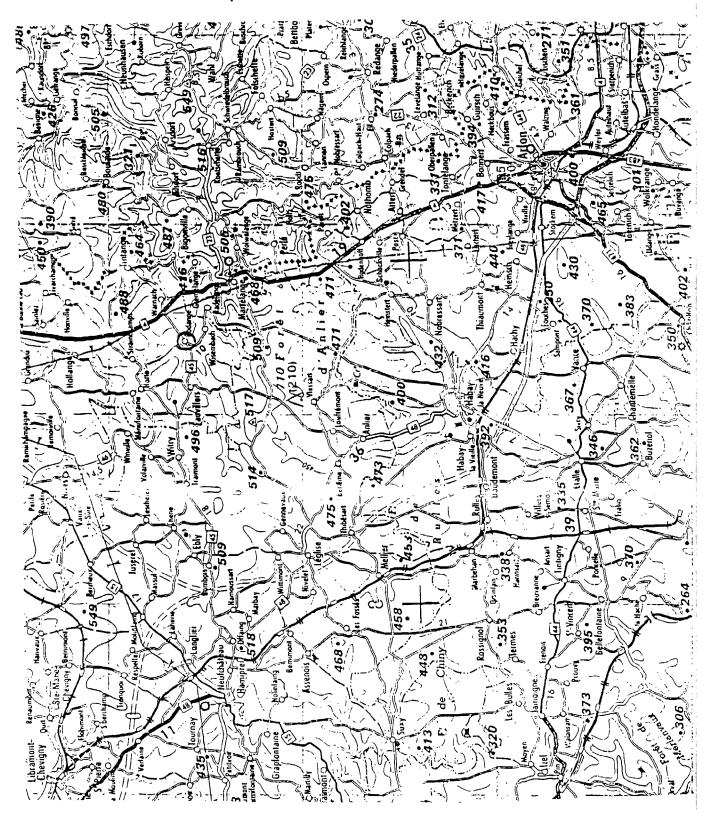
Army Group A's quartermaster studied the proposal by OKH's Quartermaster-General and found it to be inadequate. Army Group A experienced some difficulty in attempting to coordinate the air resupply with the Luftwaffe. Third Air Fleet, which would be providing the transport planes, felt their assets could not support both army and Luftwaffe needs. Army Group A, furthermore, requested that the Army Supply Depot at Hanau be made available for storing prepackaged loads of ammunition for specific combat formations that could be delivered by air on a moment's notice. The Army Group's quartermaster requested and stored additional fuel cannisters for the same purpose.94

The Army's Quartermaster-General settled the dispute between Army Group A and the Luftwaffe and organized a training exercise from 8 to 10 April to practice resupply bu air. To prevent an unnecessary use of aircraft, Army Group A agreed to Luftwaffe demands that aerial resupply mission be flown in emergency situations only. Parachute rigger crews travelled to the respective airfields to practice their skills in preparing parachute loads. Army personnel received training on prepackaging ammunition and fuel containers. The exercise culminated with several resupply missions being carried out.95

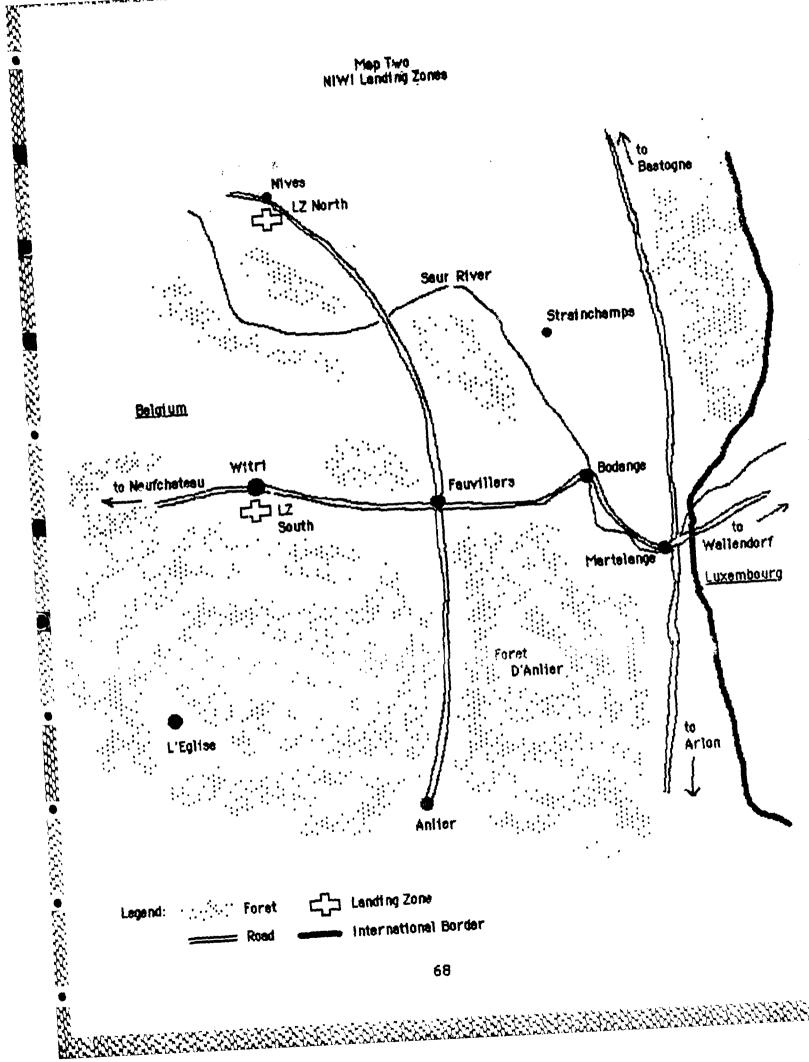
As the attack day drew nearer the generals assessed the Army's readiness. They viewed junior officers and NCOs with renewed confidence, and more importantly, young leaders developed confidence in themselves. Indeed the majority of the problems identified in the Polish Campaign

had been rectified, however, at tremendous cost. German industry remained unable to support the dramat's expansion from 105 divisions in November 1939 to 156 divisions on May 10, 1940. The Army transferred vast numbers of wheeled vehicles from regular infantry divisions to newly formed Panzer and motorized divisions. The poor state of German industry caused infantry divisions once again to become solely dependent on the horse as prime mover for artillery and services. In Army Group A, the 12th and 16th Armies relied on 22,000 and 33,000 horses respectively for transportation in May 1940. A number of Panzer divisions equipped with captured vehicles and tanks experienced maintenance problems for lack of spare parts. A general shortage in steel production caused concern amongst the military leadership, especially with the impending violations of Belgian, Dutch, and Luxembourg neutrality. Germany relied on neutral Sweden's iron one. Nevertheless, on May 9, 1940, XIXth Panzer Corps stood ready, poised for action, its soldiers and leaders completely confident in victory. One must keep in mind, however, that a vast majority of Germans, soldiers included, were incapable of seeing beyond the facade.96

Map One XIXth Panzer Corps' Sector



Mep Two NIWI Lending Zones



#### END NOTES

#### CHAPTER THREE

1Burkhart Mueller-Hillebrand, Das Hoer, Yol II, up. 31-32.

2Yearly draft group or wave is a translation of the German word "Welle". OKH catagorized the divisions into waves for mobilization purposes. The Army further segregated divisions into active, reserve, and Landwehr divisions. The first wave, active duty divisions, numbered from 1 through 36 and 44 through 46, a total of 39 divisions. The second wave, reserve divisions, totaled 16. The third wave, reserve/Landwehr divisions, totaled 21. The fourth wave, primarily composed of reservists, totaled 14.

|             | 1st Draft | 2nú Draft  | 3rd Draft | 4th Draft |
|-------------|-----------|------------|-----------|-----------|
| Active Duty | 78%       | 6 <b>%</b> | 0%        | 9%        |
| Reserve     | 18%       | 91%        | 58%       | 67%       |
| Landwehr    | 4%        | 3%         | 42%       | 24%       |

Once fully mobilized the personnel strength of the 1st through 4th wave infantry divisions comprised, 35,781 officers, 191,238 noncommissioned officers, and 1,146,934 soldiers. Upon mobilization the 1st wave divisions provided active duty officers and NCO's to as cadre for the 2nd wave divisions, so they could immediately deploy into combat. Third wave divisions consisting of age groups 1900 to 1913, had only received short term training. Fourth wave divisions, although short term enlistees, had active cadre. Interestingly, the 5th and 6th wave, hastily organized once Hitler decided to attack France, received only Czechoslovakian weapons. Werner Heupt, Pas Buch der Intenterie (Friedberg: Podzun Pallas Verlag GmbH, 1962), pp. 50-55; Franz Halder, The Halder Diaries, p. XXVII; and Mueller-Hillebrand, op cit., pp. 32-36 and 47.

3Mueller-Hillebrand, op cit., pp. 32-33.

+Lewis, Forgotten Legions, p. 39.

5The Machine gun (MG) 34 was a gas pressure, recoil-operated gun. The MG 34 replaced the MG 08/15, a World War I vintage light machine gun in 1934. The MG 34 was, however, not officially accepted into the Army until shortly before the Polish Campaign. The MG 34 was considered to be light machine gun when operated with its bipod. When employed with a tripod, it was classified as a heavy machine gun. After the reorganization of the rifle equad after the Polish Campaign, each equad was equipped with the MG 34, thus providing a platoon of four equads with immense firepower. The MG 34 gun section consisted of a gunner, assistant gunner, and an ammunition bearer. Technical data are as follows:

Caliber 7.92 mm
Weight 12.1 Kg (24.41bs)
Length 1.22 meters
Barrel length 59.2 centimeters
Sight adjustment 200 to 2000 meters
Maximum range 3000 meters

Initial muzzle velocity Rate of fire Maximum affective rance

755 meters/second 800 to 900 rounds/minute 1500 meters

These light machine guns provided the rifle companies with their main firepower. The light weight and low profile of the MG 34 facilitated its forward employment in all types of combat. The MG 34 could easily be operated a single gunner, when necessary. Alex Buchner, Handbuch der Devischen Infanterie 1939-1945 Gliederung-Uniformen-Bewalfnung-Ausruestung-Einsweltze (Friedberg: Podzun-Pellas-Yerlag, 1987), p. 25.

Shalder, op cit., pp. 80-82; and Lewis, op cit., pp. 65-67.

Thalder, op cit., op. 80-82; and Lewis, op cit., pp. 65-67.

98. J. Levis, "Reflections on Military Reforms: One Garman Example" (accepted for publication by Military Review, January 1988), p. 2.

9Williamson Murray, "The German Response to Victory in Poland", Armed Forces and Society, Winter 1981, Vol. VII, No. 2, pp. 285-298.

10General der Infanteria e. D. Guenther Blumentritt, *The German Armies 1914 and 1939* translated by M. Otto (Fort Leevenworth: Combat Studies Institute Academic Year 1985–1986 U.S. Army Command and General Staff College, 1986), pp. 267–273.

11 Murray, op cit., pp. 285-298; and Lewis, Forgotten Legions, pp. 60-64.

12Mueller-Hillebrand, opcit., pp. 40; Gordon A. Craig, The Politics of the Prussian Army 1640-1945 (New York: Oxford University Press, 1972), p. 482, Police officers inducted into the Reichsheer maintained their equivalent army rank. Army efficers showed distaste for this procedure since advancement in the Reichsheer was much slower than in the police.

13The Abitur'is equivilant to an Associated Arts Degree. In the German achool system children begin their Hochschule and Gymnesium (high school) education at the end of their fourth grade. Thus the German Hochschule and Gymnesium encompass subjects in the humanities and sciences that are only taught in colleges and universities in the United States.

14Lewis, op cit., pp. 60-64; Murray, op cit., p. 287; Mueller-Hillebrand, op cit., pp. 37; Claus Meyer, "Geschichte der Feldjeegertruppe", in Deutsches Soldatenjahrbuch 1988-36. Deutscher Soldatenkalender, ed. Helmut Damerau, (Muenchen: Schild Yerlag, 1988), pp. 340-341; and Edgar Roehricht, Flicht und Gewissen Erinnerungen eines deutschen Generals 1932 bis 1944 (Stuttgart: W. Kohlhammer Yerlag, 1965), p. 158.

15Der Oberbefehlshaber des Heeres, Gen St d H/Ausb. (Ia), Nr. 400/39g. 13. 10. 39., Betr. "Ausbildung des Feldheeres"; see Appendix N, German Military Documents for an explanation of the format; and Halder, *op cit.*, Yol. 3, pp. 5 and 22.

16Murray, *op cit.*, p. 291.

Der UbuH, Can Stid H/Ausb. (la), Nr. 400/39g. 13.10.39, Betr. "Ausbildung des Felicièreres"; and Hermann Balck, *Ordnung im Chaos* (Osnabrueck: Biblio Yerlag, 1981), pp. 265-266.

18Lewis, op cit., p. 94; and Buchner, op cit., pp. 15-17.

19Murray, op cit., P. 293.

<sup>20</sup>Murray, op cit., pp. 285-298; and Der Oberbefehlshaber des Heeres, 24.10.39., Zustandsberichte, NARS T315/1025/357.

21 Murray, op cit., pp. 285-298.

22Halder, op cit., p. 117; and Lewis, Reflections on Military Reforms: One German Example

Blevis, 🕮 - *Pen Legions*, p. 97.

24Der überbefehlshaber des Heeres, Gen St d H/Ausb. (la), Nr. 900/39g. 12. 12. 39, Betr. "Ausbildung des Feldheeres".

251bid; Mueller-Hillebrand, op cit., p. 42; and Halder, op cit., Yol. 3, pp. 88-89.

<sup>26</sup>Der Oberbefehlshaber des Heeres, Gen St & H/Ausb. (la), Nr. 900/39g. 12. 12. 39, Betr. "Ausbildung des Feldheeres".

270KH, Gen St d H/Gen d. Inf. 1964/40g. III, 28. 2. 40, Betr. Truppenpioniere bei den M. G. Battalik nen; GKH did not expect to have any armor vehicle launch bridges until the end of March 1940. These hydraulicly emplaced bridges were mounted on a Panzer Mark IV chassis. The bridge span was nine meters long for a water depth of two meters. Four divisions were scheduled to receive three units each. There was also a shortage of infantry foot bridges, of which two were to be ready sometime in Fabruary 1940. Halder, opera, Vol. 3, p. 27.

28 Halder, op cit., Yol. 3, pp. 88-89.

29A. O. K. 12, O. Qu. 1, 5. 3. 40, Betr. Persoehnlicher Brief des Oberbefehlshabers A. O. K. 12 an den Oberbefehlshaber Heeresgruppe A.

30Hoeresgruppe A, (O. Qu.I) Nr. 145/40geh, 26.1.40, Betr. Yerkehrskontrolle der Heeresgruppe A; Heeresgruppe A, Der Oberbefehlshaber, H. Qu, den 14.12.39, Betr. Heeresgruppen-Befehl zur Besserung der Yerkehrsverhaeltnisse im Bereich der Heeresgruppe A; Nachschubkompanie 32, Wasser-Kol. Mot Zug 162/561, 18. 4. 40, General Guderian cent a letter to his division commanders on February 14, 1940 in an effort to make safe driving everyone's concern. Between October 1, 1939 and January 31, 1940, XIXth Panzer Corps suffered 22 fatalities, 101 serious injuries, and 300 light injuries from traffic related accidents. A thorough investigation revealed that all accidents resulted from poor driver discipline. Guderian also emphasized the corps' equipment losses, especially in vehicles, for

which no repla ements existed. General kommando XIXth Armeekorps, den 14, 2, 40.

310f the 25,360 authorized vehicles in 12th Army, 24,457 were on hand; Of the 569 vehicles not on hand, 1 ton or larger capacity trucks precipitated a transport hauling shortfall of 1,707 tons. The 12th Army also had many motorcycles, 1/4 to 1/2 ton trucks, and 1ton or higher capacity trucks in maintenance shops. It's total hauling shortfall in 1 ton or higher capacity trucks amounted to 16.9% or 4,773 tons. A.O.K. 12, O.Qu I., 1/Kf. 7.1.40, Betr. KFZ-Bestand A.D.K. 12, 38/40g. Kdo, 15. 1. 40, KFZ-Bestand der Armee, Persoehnlicher Brief des Oberbefehlshaber der 12. Armee an den Herrn Oberbefehlshaber der Heeresgruppe A.

32Wilhelm List was born in Oberkirch on May 14, 1880. He entered the army as a officer cadet on 15 July 1898, and joined the 1st Bavarian Engineer Battalion in 1900. After World War I, List remained in the Reichsheer and commanded the Infantry School in 1930, the 4th Division in 1933, the 4th Corps in 1935, and Army Group Headquarters 2 and 5 in 1938. During World War II, he commanded 14th Army in Poland, took command of 12th Army on 25 October 1939, was Commander Southeast from July to October 1941. From July to September 1942, List commanded Army Group A. List was promoted to Field Marshal on 19 July 1940 for his services in the Battle of France. List settled in Garmisch after World War II. Keilig, op cit., p. 201.

33A 8 7 12, 38/40g. Kdo, 15. 1. 40, KFZ-Bestand der Armee, Persoehnlicher Brief des Oberbefentshaber der 12. Armee an den Herrn Oberbefehlshaber der Heeresgruppe A.

34Generalkommando XIX. A. K., O. Qu. I. Nr. 065/40g, 12.1.40; Fedor von Bock, Tagebuchnetizen Hiesten Diary entry of November 6, 1939; also, In early March 1940 0. His received a report that 2nd Panzer Division had horded seven railroad boxcars of vehicle repair parts. The division of an investigation which in fact located the boxcars in 2nd Panzer Divisions deployment area. The division commander, rather embarassed, returned the parts within ten days. Armee-Oberkommando 12 O. Qu./Qu.1/Kf. A. H. Qu., den 10. 3. 40. Bezug: OKH Gen. St. d. H., Gen. Qu./Qu.3 Abt IIb Nr. 5031/40 vom 6.3.40., Betr. Kfz.-Ersatztell der 2. Pz. Division.

35 Muerier - Hillebrand, op cit., p. 42.

 $3644 \pm 0$ , op cit., Yol. 3, pp. 15-16; and Lewis, Reflections on Military Reforms: One German Example, p. 9.

37ha... orkommando des Heeres, Gen St d H/Ausb. Abt. (la), Nr. 135/40g. 19. 01.40. Betr "Ausbridung des Feldheeres," Bez. "ObdH/Gen St d H/Ausb. Abt. (la), Nr. 400/39g. von 13.19.39 und Nr. 900/39g. von 12.12.39.

38Aggressor forces provide a certain amount of realism to training because they dress as enemy soldiers and employ the enemy's doctrine.

39 Das Oberkommando des Heeres, Gen St d H/Ausb. Abt. (la), Nr. 135/40g. 19. 01.48. Betr. "Ausbildung des Feldheeres," Bez. "ObdH/Gen St d H/Ausb. Abt. (la), Nr. 400/39g. von 13.10.39 und Nr. 900/39g. von 12.12.39.

40Ewald von Kleist was born on August 8, 1881 in Braunfels. He entered the 3rd Light Field Artillery Regiment in 1901. In 1912, von Kleist transferred to a Husser regiment. During the interwar perid, he commanded an infantry regiment, the 2nd Cavalry Division, and Yilith Corps. You Kleist retired as General of Cavalry in 1938. Called back to active duty when war broke out in 1939, von Kleist commanded the XXII Corps during the Polish campaign. After the Polish campaign, XXII Corps headquarters was transferred to Rheinberg on the Western Front. In March 1940 XXII Corps headquarters are transferred to Rheinberg on the Western Front. In March became the commanding headquarters of XIXth and XList Panzer Corps and XIYth Motorized Corps. You Kleist led the first schelon and main effort in the advance through the Ardennes to the Channel coast. He was promoted to the rank of Field Marshal in 1943. Initially a Prisoner of War with the British, you Kleist was handed over to the Yugoslavians in 1946 and subsequently to the Soviet Union in 1948. Field Marshal Ewald you Kleist died in his minth year of imprisonment in the Soviet Union, in 1954. Keilig, po cit., p. 166; and Robert Wistrich, Who's who in Maxi Germany (New York: Mac Millan Publishing, Co., 1982), pp. 172 – 173.

41General Headquarters Troops are those units assigned to army level, or higher, headquarters.

42Generalkommando XXII. A. K. Nr. 882/40 geh., K. H. Qu., den 6. 3. 40. Assumption of command.

43Ulrich Liss, Westfront 1939/40 Erinnerungen des Feindbeerbeiters im O. K. H. (Neckargemuend: Scharnhorst Buchkameradschaft, 59), p. 104.

441bid., p. 143.

45|bid., p. 144.

461 bid.

47The 1st Chasseurs Ardennais was a Belgian light infantry division specially trained for delaying action. E. T. Melchers, *Kriegsschaupietz Luxemburg August 1914 May 1940* (Luxemburg: Sankt-Paulus-Druckerei, A. G., 1979), p. 383.

48Liss, *op cit.*, p. 144.

49Der Oberbefehlshaber des Heeres Gen St d H Op. Abt. (la) Nr. 130/40 g. Kdos. H. Qu. 0kh, den 24 Febr. 1940 «GEHEIME KOMMANDOSACHE» Die zur Zeit gueltige Aufmarschanweisung "Gelb" (Der Ob d H Gen St d H Op. Abt. (la) Nr. 074/40 g. Kdos. Chefs. vom 30. 1. 40) ist durch anliegende Neufassung im Sinne meiner Ausfuehrungen vor den Oberbefehlshabern am 24. 2. 40 zu ersetzen. gez. Brauchitsch; Anlage 1 zu 0b d H Gen St d H Op. Abt. (la) Nr. 130/40 g. Kdos. vom 24. 2. 40 Betr. Neufassung der Aufmarschamweisung "Gelb"; and XXII A. K. (Gruppe von Kleist) Kriegstagebuch (KTB) Nr. 3, (6 March 1940 to 9 May 1940), entry for 6. 3. 40.

50Ernst Busch was born in Essen-Steele on 6 July 1885. He joined the 13th Infantry Regiment in 1904. After World War I, he remained in the Reichsheer and commanded the 9th

Frantry Regiment in 1932, the 23rd Division in 1935, and the 8th Corps in 1938. During forld War II, Busch continued to command the 8th Corps in the Polish Campaign. In February 940, he assumed command of 16th Army for the Battle of France. From October 1943 to June 944, Busch commanded Army Group Center on the Eastern Front and in March 1945. Army Froup Northwest. Busch was promoted to Field Marshal on 1 February 1943. He died as insoner of War in England in 1945. Keilig, op cit., p. 51.

51Anlage B, Generalkommando XXII. A. K. (Gruppe von Kleist) Chef des Generalstabes, 10. 8. 40., Vorlaeufige Erfahrungen mit grossen motorisierten Verbaenden.

52Georg-Hans Reinhardt was born in Bautzen on March 1, 1887. He entered the 107th infantry Regiment in 1907. In the interwar period Reinhardt commanded the 1st Infantry Brigade (mot) and the 4th Panzer Division, maintaining command of the division through the colish campaign. In February 1940 Reinhardt assumed command of XLIst Panzer Corps. Reinhardt, promoted to General-Colonel in 1942, maintained this rank until 1945. General Reinhardt died in November 1963. Keilig, op cit., p. 266.

53Gustav von Wietersheim was born in Breslau on February 11, 1884. He entered the 4th Guard Grenadier Infantry Regiment in 1902. During the interwor period von Wietersheim commended the 29th Infantry Division. In 1938 he assumed command of XIYth Corps, renamed XIYth Motorized Corps shortly before the French campaign. You Wietersheim, promoted to Heneral of Infantry, received no further promotions. He retired in the latter part of 1942 and saw no further service. Keilig, op cit., p. 364.

54Anlage B, Generalkommando XXII. A. K. (Gruppe von Kleist) Chef des Generalstabes, 10. 8. 40., Yorlaeufige Erfahrungen mit grossen motorisierten Verbeenden; also, General von Kleist's ancept envisioned two corps abreest, insteed of three corps in depth. Yon Rundstedt wanted to read with one corps, three divisions abreest. Yon Kleist felt that in combat a corps commander could only successfully command and control two divisions abreest. Yon Rundstedt's concept rotally committed XIXth Panzer Corps. With two corps leading, the Group's first echelon would consist of four divisions insteed of three. Yon Kleist's concept pitted more combat power up front, where then echeloning in such great depth. KTB Nr 3 (Gruppe von Kleist) 6. 3. 40; and Anlage Generalkommando XXII. A. K. (Gruppe von Kleist) Chef des Generalstabes, 10. 8. 40., Yorlaeufige Erfahrungen mit grossen motorisierten Yerbaenden.

55 The Encyclopedia Americana, International Edition (Danbury: Grolin Incorporated, 1984), 30 Yols., p. 248.

56 Hans von Dach, "Fanzer durchbrechen eine Armeestellung" Schweizer Soldet (47) 1972, 2, p. 58.

57Anlage I zu Gr. von Kleist la/op Nr 217/40 g. Kdos. Chefs. von 21. 3. 40. (Newauffassung vom 5. 5. 40.) Betr. Besondere Anordnungen füer die Strassenzuteilung, Marsch und Verkehrsregelung (zum "Befehl füer den Durchbruch bis zur Mass"); and Verkehrsregelung, NARS T315/558/01329.

581bid; and Dach, op cit., Nr 2, p. 60.

59XXII. A. K. (Gruppe von Kleist) KTB, 8. 3. 40.

60Kurt Zeitzler was born in Gossmar/Luckau on 9 June 1895. He entered the 72nd Infantry Regiment in 1914. After World War I, Zeitzler remained in the Reichsheer. In the spring of 1939 he took command of the 60th Infantry Regiment. During World War II, Zeitzler served as Chief of Staff of the XXIInd Corps (later Panzer Group von Kleist) throughout the Polish and French Campaigns, and as Chief of Staff of Army Group D in 1942. On 24 September 1942, he replaced Halder as the Army Chief of Staff and served in that capacity until 1 July 1944. Zeitzler was discharged from the Army on 31 January 1945. In September 1942, Zeitzler was promted to General of Infantry by skipping the rank of Major-General. The highest rank he achieved was Colonel-General on 30 Januaru 1944. Zeitzler retired to Hamburg after the war, and died in September 1963 at the age of 68. Keilig, *op cit.*, p. 374.

61 Dach, op cit., Nr. 2, p. 60; and XXII. A. K. (Gruppe von Klaist) KTB, 8. 3. 40.

62Anlage I zu Gr. von Kleist Ia/op Nr 217/40 g. Kdos. Chefs. von 21. 3. 40. (Neuauffassung vom 3. 5. 40.) Betr. Besondere Anordnungen füer die Strassenzuteilung, Marsch und Yerkehrsregelung (zum "Befehl füer den Durchbruch bis zur Mass"); Gruppe von Kleist O. Qu./Qu I, 175/40 geh. Kdos., 1. 4. 40; and Heeresgruppe A Oberquertiermeister (Qu I) Nr 457/40 geh., 20. 3. 40., Betr: Yerkehrsregelung an den Rheinbrücken im Bereich der Heeresgruppe A.

63Beilage B zur Anlage I Gruppe von Kleist la/op 217/40 geh. Kdos. vom 21. 3. 40., Betr: Besondere Anordnungen fuer die Verkehrsregelung; Anlage I zu Gr. von Kleist la/op Nr 217/40 g. Kdos. Chefs. von 21. 3. 40. (Neuauffassung vom 3. 5. 40.) Betr. Besondere Anordnungen fuer die Strassenzuteilung, Marsch und Verkehrsregelung (zum "Befehl fuer den Durchbruch bis zur Mess"); and Der Kommandierende General der Gruppe von Kleist, Einsatzort, den 11. Mai 1940., NARS T315/558.

6 Anlage I zu Gr. von Kleist Ia/op Nr 217/40 g. Kdos. Chefs. von 21. 3. 40. (Neuauffassung vom 3. 5. 40.) Betr. Besondere Anordnungen füer die Strassenzuteilung, Marsch und Verkehrsregelung (zum "Befehl füer den Durchbruch bis zur Maas").

65Halder, op cit., Vol. 3, p. 91; Melchers, op cit., p. 191-210; and Jacobsen, op cit., p. 163.

S6Walther Nehring was born in Stretzin on August 15, 1892. He entered the 152nd Infantry Regiment in 1911. Remaining in the Reichsheer after World War I Nehring, promoted Colonel in 1937, commanded the 5th Panzer Regiment. In July 1939 he became Chief of Staff of the XIXth Corps and remained with the corps through the French campaign. Nehring took command of the 18th Panzer Division in October of 1940 and subsequently served with the Afrika Corps from March to August 1942 and as Commander in Chief Tunisia, November - December the same year. Nehring achieved the rank of General of Panzer troops in July 1942. General Nehring served in many other high command positions throughout the war. Keilig, op cit., p. 232-233.

67Fieseler Storch (Fi 156) was a single engined aircraft capable of holding the pilot and two passengers. Originally designed as an observation aircraft, the Storch had a wing span of 14 meters, length of 10 meters, and a 240 hp engine capable of flying 170 km/h. Flying range was

> km or 5 1/2 hours. Maximum carrying capacity, including pilot was 470 kg (1034 lbs). Muired minimum take off distance was 120 meters and required minimum landing distance 80 leters, at maximum weight. Since several other similar operations were planned for May 10, 140, only 100 aircraft became available for Garski's battalion. Dach, op cit., Nr. 2, p. 67.

68Anlage 1 zu: Generalkommando XIX. A. K., Abt. Ia Nr. 35/40 g. Kdos., 1. 2. 40.

69Halder, *op cit.*, Vol. 3, p. 95; Generalkommando XIX. A. K., Abt. ia. Nr. 273/40g. Kdos. in 10. 4. 40, and 280/40 g. Kdos. den 11. 4. 40; Anlage 1 zu: Generalkommando XIXC. A. K. Abt. ia. Nr. 35/40 g. Kdos. 1. 2. 40, Crailsheim served as training area for special operations units.

70The term NIWI was derived from the first letters of the towns of Nives and Witry; Generalkommando XIX. A. K. Abt. Ia. 16. 4. 40, Betr: Befehl fuer den Einsatz der Abteilung Gerster-Garski; and Ibid., Abt. Ia. Nr. 536/40g. Kdos., den 13. 4. 1940.

71Hugo Sperrle was born in Ludwigsburg on February 7, 1885. He joined the 126th Royal Wuertemberg Infantry Regiment at an early age and was promoted to lieutenant in 1913. During World War I, Sperrle served in the air force. After the war he remained in the Reichsheer, worked at the Reichswehr Ministry in 1925, and held several commands between 1929 and 1933. In 1935 he transferred to the newly formed Luftwaffe as a Brigadier-General and, recognized for his leadership and organizational abilities quickly rose in rank. During the Spanish Civil War, Sperrle commanded the German Condor Legion in Spain. In November 1937 he was promoted to General of Fliers and in 1938 he assumed command of Luftflotte III. Luftflotte III supported von Kleist's advance and breakthrough operation in May 1940. In July 1940 Sperrle was promoted, along with many other generals, to the rank of Field Marshal. Sperrle held many other high ranking positions during the war. Aquitted of all war crimes by the Allied sibunal, Sperrle lived out his life in Munich. He died on April 7, 1953. Wistrich, op cit, pp. 14-295; and Helmut Damerau, Deutsches Soldatenjahrbuch 1963 (Tettnang: Lorenz Senn log, 1963), p. 169.

72Melchers, op cit., p. 380; Generalkommando XIX. A. K., Befehl fuer den Einsatz der mieilung Foerster-Garski; Generalkommando XIX. A. K., den 1. 5. 40., Betr. Studie zum orpsbefehl Nr. 1. Besondere Anordnungen ueber die Unterstuetzung des XIX. A. K. am A-Tag wich den Nahkampffuehrer II.

<sup>-73</sup>Generalkommando XIX. A. K. Abt. Ia. Nr. 273/40g, Kdos., den 10. 4. 40 and Abt. Ia. Nr. <sup>-10</sup>/40 g. Kdos., den 11. 4. 40.

74lbid.; Dach, ap cit., Nr. 2, p. 61.

75 Ibid.

76Rigging or to rig is a U. S. Army term used to describe the preparation of an aircraft, ie: the proper loading, storing, and tying down of equipment on an aircraft.

<sup>77</sup>Dach, *ap cil.*, Nr. 2, p. 61.

78Generalkommando XIX. A. K. Abt. Ia. Nr. 221/40 g. Kdos., den 18. 4. 40; Dach, *op cit.*, Nr. 2, p. 62; and Gruppe von Kleist Abt. Ia. Nr. 636/40 g. Kdos., K. H. Qu., den 23. 4. 40.

796eneralkommando XIX. A. K. Abt. Ia. Nr. 597/40 g. Kdos., den 22. 4. 1940; see also for the problem of soldiers firing on the Fieseler Storch aircraft. After the Mechelen Affair Hitler demanded extreme security measures throughout the Armed Forces. Army commanders in Army Group A's sector probably had knowledge of the operation, but the infantryman ready to advance across Luxembourg certainly had no idea of the impending air assault. Thus Garski had a valid concern. Within XIXth Panzer Corps only several officers of the 1st Panzer Division received prior briefings.

80Heinz Guderian, *Fanzer Leader*, trans. by Constanine Fitzgibbon, (New York: Balentine Books, Inc. 1957), pp. 69-70.

81Hermann Balck, in his book *Ordnung im Chaos*, vividly descibes the situation at Guderian's Command Post on the morning of May 13, 1940. The Meuse River crossings turned into a hastily organized operation because General von Kleist did not want to wait for the infantry divisions, which would have allowed the defender to improve his defenses. You Kleist, on the morning of May 13 ordered Guderian to conduct assault crossings with his motorized Infantry (dismounted of course) that afternoon. With no time to write elaborate orders, Col Nehring simply ordered: "Mission: Duplicate War Game Koblenz, H-hour is 16:00 hrs today."

82The first German Flak (anti-aircraft) units of corps size were activated at the conclusion of the Polish Campaign. Each Panzer division had organic anti-aircraft battalions, however, for the Battle of France these were insufficient. The German Army was also ill prepared for antitank warfare since their 37mm antitank guns were obsolete. The Flak's 88mm anti-aircraft gun proved itself in Poland as a definite antitank asset. The 88mm guns with their armor-piercing ammunition seemed a viable solution. The Flak could engage, aircraft, tanks, and bunkers. The Luftwaffe, in organizing these new Flak corps initiated some fundamental changes in the ammunition allocation. Flak units would carry 50% time fuze, used in anti-aircraft missions, 30% percussion fuzes, for ground targets, and 20% armor-piercing ammunition. 1st Flak Corps vas organized from the III Airforce Administrative Headquarters (Luftgaukommando III) in october 1939. For more information see Appendix I and L. Generaloberst Hubert Weise, *Organization of Air Defense in the Field Experiences of I Flak Corps* Manuscript Data Sheet iniginally prepared for Headquarters European Command, Office of the Chief Historian Washington 25 D. C.: Department of the Army Office of the Chief of Military History, 1952), o. 1-3; and Georg Tessin, Verbaende und Truppen der Deutschen Wehrmacht und Waffen-SS im *weiten Weltkrieg 1939–1945* Vol II. Die Landstreitkraefte 1–5 (Osnabrueck: Biblio Verlag, 473), pp. 1**5-16**.

83Adalbert Koch, *Die Geschichte der Deutschen Flakartillerie 1935-1945* (Friedberg: Pdzun-Pallas-Yerlag, 1954), pp. 30-32.

84Kenneth Macksey, *Guderian Creator of the Blitzkrieg* New York: Stein and Day Publishers, 1976), pp. 124-125.

85lbid., p. 127; and Horst Scheibert, *Das War Guderian, Ein Lebensbericht in Bildern* (Friedberg: Podzun-Pallas-Verlag, GMBH), pp. 42-44.

86KTB Nr. 3, Gruppe von Kleist, entry for March 13, 1940.

87Fritz Bayerlein was born in Wuerzburg on 14 January 1899. He joined the army in 1917. During the interwer period Bayerlein served in the 21st Infantry Regiment (Reichswehr) in 1922, in the logistics section (lb) of the 15th Corps in 1938, and then joined the 10th Panzer Division as operations officer (le) in the spring of 1939. During World War II, Bayerlein remained the operations officer of the 10th Panzer Division on Poland. In February of 1940, Bayerlein transferred to XIXth Corps as the Operations Officer. Subsequent assignments are as follows: Chief of Staff, German Africa Corps in 1941, Chief of Staff, German-Italian Panzer Army in 1942, Chief of Staff, 1st Italian Army in 1943, commander of the 3rd Panzer Division in 1943, Panzer-Lehr Division in 1944, and the 53rd Corps in 1945. Bayerlein's highest rank schieved during World War II was Major-General on 1 April 1944. He retired to Wuerzburg after the war and died on 30 January 1970. Keilig, op cit., p.17.

88Generalkommando XIX. A. K. Abt. la Nr. 306/40 g. Kdos., den 17. 4. 40., Betr: Zieluebermittlung und Zielanweisung.

89Generalkommando XIX. A. K. la/Naka Nr. 367/40 g. Kdns., den 6. 5. 40.

90Class I is food or rations, Class III fuel, and Class Y ammunition.

91 Dech, op cit., Nr. 2, p. 60; Halder, op cit., pp. 270, 298-300, 328, 395, and 401; and Eduard Wagner, Der General-Quartiermeister Briefe und Tagebuchaufzeichnungen des Generalquartiermeisters des Heeres General der Artillerie Eduard Hagner Herausgegeben von Elisabeth Wagner (Muenchen: Guenter Olzog Yerlag, 1963), pp. 153 and 155.

92General Eduard Wagner was born on 1 April 1894 in Kirchenlamitz/Hof. He joined the army as a cadet in 1912, and the 12th Bavarian Field Artillery Regiment 1914. In 1936, Wagner became as section chief in the Army Coneral Staff, and in the apring of 1939 assumed command of the 10th Artillery Regiment. During World War II, Wagner was the Quartermaster-Seneral (General quartiermeister) of the Army General Staff from August 1940 until July 1944, when he committed suicide because of his connection to the failed attempt on Hitler's life. Fagner's highest rank achieved was General of Artillery on 1 August 1943. Keilig, op cit., p. 353; and Wagner, Der General-Quartiermeister.

93Generalkommando XIX. A. K. Abt. Qu. Nr. 500/40 geh. 7. 3. 40; and Halder, op cit., p. 278.

94Heeresgruppe A. Oberquartiermeister (Qu.1) Nr. 172/40 g. Kdos. H. Qu., den 14. 3. 40. Betr: Yersorgung auf dem Luftwege.

95Telegraphic message ordering the resupply exercise dated 2 April 1940. The originator of the message based his authority on a previous General Staff document. That document was: Gen. St. d. H./Gen. Qu./Qu. 3 (Ia) Nr. 502/40 g. Kdos. vom 3, 3, 40. Betr: Yersorgung auf dem Luftwege.

96 Harmann Balck, Ordnung im Chaos Erinnerungen 1893-1948 Soldatenschicksale des 20.

vahrhunderts als Geschichtsqueile (Osnabrueck: Biblio Yerlag, 1981), p. 266; Halder, op cit., p. 168; Macksey, op cit., p. 124; also, the Army grew in personnel from 2.76 million in September 1939 to 3.3 million by May 1940. Production did not keep pace with the rapid growth of the Army, thus no weapon reserves existed in 1940. For the time being the German Army relied heavily on captured Polish and Czechoslovakian equipment. Mueller-Hillebrand, op cit., pp. 40-41.

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### CHAPTER FOUR

## **ADYANCE TO THE MEUSE**

"Nach dem Durchbruch ist von entscheidender Bedeutung, ohne Rucksicht auf Flankenbedrohung, unter voller Ausnutzung der Motoren, ohne Ruhe und Rast, Tag und Macht marschierend so voll vorzustaßen, als es der Brannstoff gestattet. Ausscheitung von Flankenangriffen des Feindes ist Aufgabe aller nachfolgenden Korps."

General Heinz Guderian, May 1940

# Thursday, May 9, 1940

At 1648 hours Hitler and his personal staff departed Berlin-Finkenkrug train station. For security reasons only a select few knew the destination. The train imitially headed towards Hamburg but changed course at Hagenau-Land toward Hannover. This alteration in course, noticed by members of the staff, resolved any questions regarding the trip's purpose. The train made one last stop at Burydorf, where Major Nicolaus von Below called Luftwaffe headquarters for the latest weather report. The voice of the Luftwaffe meteorologist on the other and, assured von Below that western Europe would be dominated by a high pressure system for the next few days, and that the outlook for 10 May would be clear and cool with a light wind. Based on this weather report Hitler issued code word "Danzig" at 2100, authorizing the crossing of the international border and the initiation of the Battle of France.1

XIXth Panzer Corps received its official notification at 1300 hours from Panzer Group von

Kleist (<u>"Gelb 10. 5. 40, 5.35 Uhr".</u>), and notified its units. Since there were no last minute changes in mission the corps executed the March 28. 1940 operations order, and began deploying the Penzer Corps forward according to schedule. Final authorization to cross the international border came later in the evening. The opening day of this offensive was surely one of the closest held secrets within the German Army. The XIXth Panzer Corps chief of staff and the intelligence officer were on leave when the corps received its notification. Both, recalled, joined the corps on the morning of the 10th. The Tactical Command Post (TCP) under the direction of the corps operations officer arrived at Sonnenhof at 1900. General Guderian joined the TCP at 1925 hours.<sup>2</sup>

At 2000, the Penzer Group notified XIXth Penzer Corps that it had allocated an additional engineer battalion and four bridging companies to the corps. The corps held the 70th Engineer Battalion with one bridging company in reserve while attaching the 1st Comapany/406th Engineer Battalion to the 2nd Panzer Division, 2nd Company/406th Engineer Battalion to the 1st Panzer Division, and 1st Comapany/430th Engineer Battalion to 10th Penzer Division. At 2015 the XIXth Panzer Corps, notified by its divisions that the assault elements had reached their start points short of the border, was prepared to commence the offensive on schedule. Garski's air land groups, having loaded and rigged their aircraft and completing last minute checks, stood ready, awaiting the final go shead.<sup>3</sup>

Panzer Group von Kleist issued codeword "Danzig" to the XIXth Panzer Corps at 2230 hours. Having received the final go shead the corps completed the deployment phase by advancing the assault echalons of the divisions into assault positions at Sinspelt, Mettendorf, Irrel, and Eisensch along the Luxembourg border. The remainder of the corps stretched as far east as Monreal-Cochem. This was accomplished at 0130. Once in the assault positions units refueled and soldiers welcomed a final hot meal, resting as much as possible.4

While the troopers of XIXth Panzer Corps were preparing themselves for the next day, specially selected soldiers stole across the border to seize key defiles and obstacles to help speed the morrow's advance. These soldiers, from the 12th Army and the Lehr und Bau Bataillon z. b. Y 8005 (Brandenburger), dressed in civilian clothes, carried no identification cards nor identification tags, but only submachine guns and flashlights. Their instructions included the securing of bridges before they could be destroyed, prevent road blocks from being emplaced, and to occupy government buildings, such as police stations, city halls, railway stations, and telephone exchanges. These troops captured Luxembourg's police and soldiers, and held them until the German Army arrived on the morning of the 10th. Previously recruited Luxembourgers, trained in espionage and sabotage, provided the necessary information on locations of radios within the small villages along the border with Germanu.6

German intelligence sources inside Luxembourg and Belgium fed the Army's General Staff with precise information, providing a clear picture of what to expect. More importantly, it disseminated the information to units in the field so they could properly prepare. The Army had evaluated the information on enemy activity and obstacle construction projects, and as a result, positioned engineers well forward in the movement order. When XIXth Panzer Corps invaded Luxembourg on 10 May, it knew where to expect obstacles, often with detailed technical information.7

The steel gate at Fouhren and the Diekirch railroad bridge were two of the Sepecial Operations Forces objectives in XIXth Panzer Corps sector. Securing the Fouhren gate was essential since it could potentially stop the 2nd Panzer Division for quite some time, and the destruction of the bridge would interrupt resupply operations. The position of the Fouhren steel gate was such that on one side of the barrier a steep grade led into a deep gorge, while the other side bordered a solid wall of bedrock. The two Luxembourg guards assigned to it received orders to

close and lock the barrier at 0315 hours. After carrying out their orders, the two returned to Fouhren to meet with the rest of their Gendarmerie detachment. Standing outside the local cafe, at 0400 hours, the group noticed four men in civilian clothes approaching them. It seemed strange to the gendarmes that anyone would be out walking at this late hour. The four had yellow scarfs protruding from pockets or tied around their necks. When the strangers were within five meters, they threw open their overcoats and confronted the gendarmes with submachine guns. Simultaneously, they ordered them to raise up their hands and turn over the keys to the Fouhren steel gate. It quickly became evident to the Luxembourgers that these strangers were in fact no civilians, rather German soldiers dressed in civilian clothes. What the gendermes, however, did not know was that these men were specially trained soldiers of the elite Brandenburg Battalion 2. b. V. 800. The leader of the gendarmes attempted to explain to the Germans that once the steel gate was shut, it could not be opened. The Brandenburgers would not hear of such nonsense, lined up the gendarmes, and marched them to the obstacle. At the site of the steel gate the Germans quickly assessed the situation and, with several failed attempts to open the gate with handgrenades, decided to use demolitions on the barrier. The team leader placed the explosives and the other three took the Luxembourgers into the nearby woods, and within minutes the Fouhren gate disintegrated clearing the path for 2nd Panzer Division. While waiting in the forest for the advancing German units, another Brandenburg group joined them. This team had just secured the open Logsdorfer steel gate without incident (see obstacle sketch, p. 119).8

Further west at Diekirch, Luxembourg gendermes received a call from their headquarters shortly after midnight, alerting them to be on the lookout for strangers, and to patrol the railroad bridge. The detachment commander directed two gendarmes to the bridge for what he thought would be another routine patrol. The Germans Army knew that Luxembourg bridges were not prechambered and therefore could not be destroyed by their defense forces. However, OKH

worried about vital bridges falling into French or Belgian hands. After completing their patrol to the railroad bridge, and finding everything in order, the two gendarmes posted themselves at the main road intersection about 200 meters east of the bridge. Shortly after 0100 hours the two noticed two bicycles, without lights, approaching from the east. Immediately suspicious they stepped out onto the road to stop them, however, before they knew what happened, found themselves on the pavement with several submachine gun barrels staring them in the face. The Germans, dressed in civilian clothes, took the gendarmes to the bridge, and established defensive positions while waiting for the advancing 1st Panzer Division. When the regular forces arrived, the civilian dressed soldiers turned over the gendarmes to the army and departed. The army released the gendarmes at 1100 hours.9

Not all special operations missions ran as smoothly as the two just described. The prime targets throughout Luxembourg were communication facilities, telephone exchanges, and Gendarmerie headquarters. These facilities could be used by the Luxembourg government to alert the French or Belgians of the imminent invasion. The mission to destroy the most important telephone exchange located in the main Post Office in Luxembourg failed. The Brandenburg team, led by a young German lieutenant, ran into an alert three man Luxembourg patrol at the Fehls Mill near Mandernach. Following a brief fire fight, the Germans suffered several casualties and missed three men. The Luxembourgers had one killed and the two wounded, however, one of the wounded soldiers crawled to the main road and stopped a civilian car, whose driver took him to the Gendarmerie Station at Grevenmacher. The station chief alerted his higher headquarters and sent two men to the mill to recover the presumably deed Luxembourg soldiers. At the mill, they instead found three wounded civilians informing them to stay away from the old mill. The Luxembourg soldiers suspected the three were Germans, arrested them, and drove the invaders to the Luxembourg hospital.

Back at the mill, the German Heutenant decided that, because of his compromised team, the best alternative would be to stay there and await the advancing German Army. This critical decision precluded the destruction of the vital telephone cables at the Luxembourg Post Office, which no doubt transmitted important messages to France and Belgium during the night. The three wounded Germans at the hospital identified themselves as Sergeant Herbert Swirzy from Kattowitz, Alfred Wolny from Ridneten/Silesia, and Heinrich Kaismarzk from Oberradosche. The origin of the names and the location of their home towns clearly connected them to Upper Silesia, the roots of the Brandenburg Battalion. Brandenburgers and specifically selected units conducted special operations throughout Luxembourg on the night of 9 to 10. May 1940, and no doubt as a result of some badly mishandled operations authorities became suspicious and alerted Gendermerie Stations to close all the steel gates. This prevented a number of these barriers from falling into German hands open, however, the Special Operations Forces were well prepared for their missions and carried the necessary tools and equipment to ensure a smooth passage for the advancing Panzer divisions. Suffice it to say, these actions left the Luxembourg government under no illusions about the imminent German offensive. 10

### Friday, May 10, 1940

Precisely at 0535, XIXth Panzer Corps commenced the offensive. The weather report issued late on the 9th predicted clear, cool conditions, and a light wind. Guderian, like many of his contemporaries, intended to lead his corps from the front and thus departed his headquarters about 0400 to join the 1st Panzer Division at Wallendorf.

XIXth Panzer Corps crossed into Luxembourg in three main spearheads as follows (see Appendix B, March Routes):

2nd Pz Div: (north) Vianden, Tintange, Libramont to the Meuse at Flize and Sedan.
1st Pz Div: (center) Wallendorf, Martelange, Neufchateau, Bouillon to Sedan.
10th Pz Div: (south) Echternach, Arlon, Rosignon, Florenville to the Meuse south of Sedan.

First Panzer Division, the main effort of the Corps, had the corps artillery, the TCP, and the mess of the anti aircraft units following in its path. Each Panzer division and corps headquarters had a reconneissance squadron of 12 HE 126 aircraft at their disposal to provide combat intelligence throughout the breakthrough. The invasion of Luxembourg proceeded as scheduled. It took the engineers about two hours to remove the barriers and reconnaissance units took the lead. Guderian's ultimate goal for the corps simply called for reaching the Channel. The entire corps advancved west in a tight formation, presenting an excellent target for enemy airforces while in the restricted terrain of the Ardennes. Since, however, the Luftwaffe succeeded in completely surprising the Allies and delivering a decisive blow against the French and English air forces on the 10th of May, no Allied air attacks hindered the corps' movement. The Luftwaffe targeted 72 French, Belgian, and Dutch airfields up to 300 kilometers behind friendly lines lay, and its pilots, practicing for weeks in advance, led the German Armu with 3200 sircraft, 1500 of which were bombers. Besides the unconventioanl warfare tactics used in Luxembourg, the airborne and glider landings in Holland and northern Belgium, and the Luftwaffe's deep strikes into the Allied rear, the German Army held one more surprise in store. The world would witness the first air assault operation in history. The Luftwaffe transported specially trained soldiers behind the Belgian lines with orders to disrupt communications and to assault the enemy's defensive line from the west to aid the 1st Panzer Division's breakthrough. 11

#### Operation NIWI

The 3rd Battalion, Infantry Regiment "Grossdeutschland" led XIXth Panzer Corps, in the

same fashion as the 82nd and 101st Airborne Divisions would lead the Allied assaults on the Normandy beach only four years and 26 days later. Garsk's men rested little before the air assault, spending a night of anticipation, comtemplating their mission and wondering when they would meet their families again. As scheduled the first lift departed at 0530 hours, but soon thereafter take off many pilots lost contact with the formation and became disoriented. This resulted in the formation's breakup into several small groups searching for the LZ. Captain Krueger landed near the village of L'Eglise at 0600 hours, about 10 kilometers from the planned LZ (see Map three, p. 115). Other airplanes in Krueger's group spotted his aircraft and landed along side. Several aircraft were damaged during the landing at L'Eglise with two catching on fire. A third group seeing the burning aircraft guided in on them. Krueger's men, thoroughly dissatisfied with the Luftwaffe's delivery, expressed some choice phrases in its honor as they carried ammunition boxes and equipment the nearest woodline. Nevertheless, the first order of business was to get somewhat organized, set up a small perimeter, and determine their location. Stopping some Beigian civilians, Krueger learned they landed along the road to Ebly. In the confusion several more aircraft landed near the village of Rancimon at about 0600 hours, 5 kilometers south-west of L'Eglise. The battalion staff, carrying the 15 Watt radio, from Garski's lift also mistakenly landed at Krueger's location. Thus Krueger established the first radio contact with XIXth Panzer Corps. The second and third lifts arrived at 0800 and 0830 hours respectively to join Krueger, 12

Group South, led by Lieutenant-Colonel Garski, did not fare much it. The pilots experienced the same problems as the Northern Group. Garski landed with five aircraft near the village of Traimont at 0600 hours, while his staff and the rest of Group S with landed near L'Eglise. Garski and nine men spent the next three hours alone, until the second links two platoons joined them. The pilots of this lift reported to Garski that they spotted Fieseler Storch aircraft 5

kilometers south of Traimont. Garski's third lift arrived at 1000 hours, completing the air assault operation. Both groups failed to land at their intended landing zones. 13

The air landings went completely unopposed, and in both cases found Belgian civilians on their way to work or farmers tending fields. Krueger's men had their first contact with Belgian soldiers, retreating west according to the Belgian defensive plan, at 0830 hours and managed to take several prisoners. Captain Krueger authorized his men to requisition bicycles, horses, and motorcycles to form a mobile column to march north-east and link up with Garski. While his soldiers conducted the necessary requisitioning, a Luftwaffe Ju 52 transport dropped ammunition. The element from Rancimon linked up at L'Eglise at 1000 hours, and a bicycle patrol from Garski's group made contact with Krueger. Having organized enough transportation assets, Krueger began his advance to Garski's location, however, leaving the prisoners behind locked in a cellar. Belgian troops supported by a tank, probably the 10th Company, Chasseurs Ardennais stationed at L'Eglise, appeared north of the town at 1100 hours just as Krueger's group began to depart and a fire fight ensued. Krueger's men warded off the enemy with machine guns and antitank rifles ( *Panzerbuechsen*), but the Belgians did not withdraw. At 1300, Krueger gave up his planned motorized push to Traimont, disengaged from the enemy and started a cross country march. Time did not allow for locking up the latest batch of Belgian prisoners, hence they were taken along. The Belgian attackers did not pursue, enabling Krueger to finally link up with Garski west of Fauviller at about 1600 hours, 14

Garski's group also spent an interesting day. His third lift brought along three mortars and several anti tank rifles. Having finally gathered most of his people at about 1000 hours, Garski decided to push towards the objective, Bodange. Initially the group met weak resistance and continued to press on, however, they ran up against stiff resistance in an attempt to capture some bunkers protecting the approaches west of Fauvillers. The Belgian defenders held firm, stopping

Garski in his tracks. He decided to wait for the arrival of Krueger's group before trying again. The Belgian 2nd Battalian headquarters and the 4th Company, Chasseurs Ardennais defended Fauvillers. Linking up with Krueger at 1600 hours, Garski finally assembled about 80 percent of his original force. Wasting no time, he attacked with the entire force, capturing the bunkers shortly after 1700 hours. Garski's soldiers occupied Fauvillers sometime between 1700 and 1800 hours. The Belgians were able to disengage and retreated westward. Garski planned to continue the advance toward Bodange immediately.15

The airlanding apparently did not alter the plan of the Chasseurs Ardennais to continue their withdrawal westward. Although the German landings were reported to the regimental headquarters at Neufchateau, no major counter attack was planned or attempted. The Belgian Chasseur Ardennais that Garski's air assault forces encountered were simply retreating according to plan. However, at Bodange, one of the prime objectives of operation NIWI, a Chasseurs Ardennais company, under the command of Captain Bricart, succeeded in halting the advance of the German Army through the afternoon of May 10. This company continued to resist although the entire Belgian Army had withdrawn. As ordered, Bricard destroyed the telephone exchange in Bodange, eliminating one of three means of communication with his higher headquarters. The air assault forces interrupted Bricard's second means of communication: messengers. Garski's men, also cut telephone lines causing considerable confusion in the Belgian headquarters' decision cycle. Thus communication between the regimental headquarters at Neufchateau, the battalion headquarters at Fauviller, and the company at Bodange depended on very unreliable radio equipment. The radios failed and messengers were unable to get through to Bodange because of Garski's control of the roads. An order to retreat, sent at 1300 hours, reached neither the 2nd Battlion at Fauvillers nor Bricard's company at Bodange. Bricard's last message at 1230 hours ordered him to stand his ground. Following those orders, Bricard dutifully defended Bodange.16

#### Second Panzer Division

On the right flank of XIXth Penzer Corps, 2nd Penzer Division, commanded by Major-General Rudolf Vetel<sup>17</sup>, conducted its movement on the worst of the available road networks within the corps' sector. Narrow roads winding through deep valleys and gorges with numerous hairpin turns, hindered the division's movement the entire first day. 2nd Penzer Division encountered all bridges along the Belgian frontier destroyed. In addition, troops found it very difficult to maneuver around the six meter deep and 15 meter wide road craters the Belgians left behind. Even though enemy resistance remained fairly weak throughout the day, obstacles and cheotic traffic conditions in the rear limited the division from advancing any further than Manufontaine-Hotte by 1900 hours. The division advanced roughly 65 kilometers on its first day, and was about 15 kilomaters short of its objective. (see Map four, p. 116)<sup>18</sup>

#### First Panzer Division

The 1st Panzer Division, commanded by Brigadier-General Friedrich Kirchner<sup>19</sup>, as the main effort of the main effort, had the best of the four TMRs at its disposal. Sudarian directed it to desh through Luxembourg and breach the Belgian fortifications between Warnach and Martelange. No resistance was expected in Luxembourg. OKH intelligence expected the Belgian Army to defend the Ardennes Forest, with the Chasseurs Ardennais conducting a delaying action back to the Ourthe River. They anticipated the Ourthe River to be defended by the Chasseurs Ardennais and the 1st Belgian Cavalry Division, later reinforced by French forces. The Luxembourgers constructed a series of obstacles with steel gates, with a particularily important one on the mountain road near Moessbach. Right at the beginning 1st Panzer Divison ran into

difficulty caused by enemy obstacles. The first barrier blocked the Our River bridge at the German-Luxembourg border. The Luxembourg defense forces constructed a two meter thick and two meter high concrete barrier with railroad rails imbedded in the top on the west side of the bridge at Wallendorf. The 1st Infantry Brigade commander, Colonel Walter Krueger<sup>20</sup>, observing the construction of this oustacle earlier, organized a forward detachment from within the division advance guard, consisting of an ad hoc bicycle company and a motorized detachment to quickly ford the river quickly, conduct route reconnaissance, and locate obstacles along the division's TMR (table three, p. 94). Once locating a barrier the forward detachment would either seize and remove it, or locate a detour around it. The advance guard and the remainder of the division would wait for the engineers to position a prefabricated wooden ramp over the concrete bridge barrier.

Twelve HE 126 reconnaissance aircraft also assisted the forward detachment.<sup>21</sup>

Heavy fog severly hindered visibility along the Our River at 0530 hours as a small German assault group crossed the bridge at Wallendorf to disarm the Luxembourg customs agents. Simultaneously, the forward detachment forded the river and began its advance west. Engineers completed the namp across the barrier at 0730 hours and Lieutenant-Colorel Hermann Balck22 led the advance guard into Luxembourg. Balck, the commander of the 1st Infantry Regiment, commanded the advance guard because Colonel Krueger was still on leave. The forward detachment, unopposed, made excellent time and seized the road barrier at Moessbach at 0800 hours before the defenders could close the steel gate across the narrow road.<sup>23</sup>

The Belgian government, informed of the attack by German anti Nazis within the military and diplomatic community, ordered the blowing of bridges and deployment into forward defensive positions at 0100 hours on 10 May. By 1000 hours the Belgians had destroyed most of the bridges, including the ones over 1st Panzer Division's TMR at Bodange and Martelange.24

At 1000 hours the forward detachment reached the Belgian border just east of Martelange.

According to plan, the detachment commander began to deploy his unit into designated assault positions to observe the Belgians until the advance guard and the rest of the division arrived. Lieutenant-Colonel Balck, however, deciding to drive ahead of the advance guard, arrived at the forward detachment's location just as they began to dismount and settle down. Balck identified two bunkers on the Belgian side, made a quick assessment of the situation, and decided to attack without waiting for the advance guard, artillery, or air support. His scout cars fired on the bunkers, while the riflemen crossed the river to the Belgian side. Within 30 minutes the troopers maneuvered to the rear of the bunkers, neutralized them, and captured five Belgians and two machine guns. A hole had been breached in the Belgian border defenses and Balck, realizing the opportunity at hand, radioed division for permission to advance to Fauvillers. The division commander agreed. In the meantime the advance guard arrived and at 1030 hours Colonel Krueger pulled up in a commandeered motorcycle to take command of his brigade. Balck returned to his regiment, with Krueger now leading the advance guard. One engineer company remained at Martelange and began constructing a bridge at 1130 hours. By 1200 hours the advance guard reached Bodange, where it was halted by a well constructed Belgian strongpoint and found itself in an intense fire fight, 25

The Belgian commander at Bodange, Captain Bricart, constructed a formidable obstacle network along TMR B just south of the village. Anti-tank ditches, mine fields, and wire obstacles, covered by fire from well camouflaged fighting positions prevented the two battalions of the German advance guard from unseating the Belgian defenders. The Germans tried to use the high ground to the south and east of Bodange to maneuver around the defenders but failed because of a lack of fire support. The 2nd Battalion/73rd Artillery Regiment, moved forward and occupied firing positions at 1650 hours near Warnach to support the assault. Bricard's men, out of ammunition, and unable to disengage, surrendered at 1730 hours after resisting five and one-half

hours. Bricart was killed during a last attempt to disengage his company at Bodange. The dust had not settled and 2nd Company/37 Engineer Battalion began constructing a bridge. The advance guard continued west.26

#### Table three

1st Panzer Division Advanced Guard
Commander: Lieutenant-Colonel Hermann Balck

# Advanced Guard

1st Motorcycle Battalion
3rd Battalion/1st Infantry Regiment
37th Engineer Battalion (-)
1st Company/Panzer Jaeger Abteilung 37
one battery 88mm Flak (mot)
three platoons heavy Panzer Jaeger (88mm) (mot)

# Forward Detachment

# Detachment A

Bycycle Company (Abteilung Fischer)

# Detachment B

1st Company/4th Reconnaisance Battalion
1st Company/37th Engineer Battalion
three scout cars

\* All assets for the Advance guard came from the 1st Infantry Brigade.

Garski, in Fauviller, prepared to advance east toward Bodange at about the same time. The 1st Motorcycle Battalion, however, arrived in the village at 1900 hours to link up with Garski, sparing the exhausted group another march. The advance guard remained at Fauvillers, while the forward detachment drove to Witri to link up with the rest of Garski's men. By and large the division proceeded no further on the 10th.

At Martelanga, the newly constructed bridge had been opened for traffic at 1600 hours. Vehicles crossed for an hour and a half when a German officer approached a group of captured Belgian chasseurs. One of the Belgian officers stood shaking his head while watching the German vehicles cross the bridge, and the German officer asked him what was bothering him. The Belgian answered that he simply could not understand the rapidity of the river crossing, since he and his men had mined the obvious crossing site on the west bank of the Saur. The Germans stopped the crossing immediately and began clearing the minefield. The Belgians had placed the mine field some time ago and, planting the mines too deep in the ground, the soil compacted around them enabling motorcycles and small vehicles to pass unhindered. The crossing site opened again at 2115 hours; the mine field, however, had served its purpose. General Kirchner called off the advance for the day. Nightfall, chaos on the road behind, and the need to bring supplies forward undoubtedly influenced his decision (see Map four, p. 116).27

## Tenth Panzer Division

The 10th Panzer Division, commanded by Major-General Ferdinand Schaal<sup>28</sup>, like the other two divisions began its advance through Luxembourg at 0530. The two TMRs allotted to the division led over fairly open country, scattered by rolling, wooded hills. The 10th reached the Belgian border near Redingen at 0630 hours. Breaching the border defenses by 1000, it proceeded westward, rapidly penetrating 10 kilometers into Belgian territory. At noon, however, the division met the first enemy resistance at Hachy, Yanen, and Etalle and quickly came to a halt. The enemy turned out to be reconnaissance elements of the 2nd French Cavalry Division advancing northwest into Belgium to meet the invaders. General Schaal, sensing a threat to his left flank, immediately deployed "GD" forward to cover the exposed left flank. The 2nd Battalion/"GD"

attacked in the early afternoon and pushed the French forces back to Saint Marie. In the course of this action the commanders of 2nd Battalion/"GD" and 69th Infantry Regiment were killed. By 2000 hours the division advanced to the line kulles-St. Marie, where it stopped for the day. The 10th also suffered from chaotic traffic conditions with units strung as far back as Echternach. The division advanced roughly 75 kilometers on the first day, but failed to reach its objectives of Rossignol-Belfontaine. Those last five kilometers would have to be accomplished on the 11th (see Map four, p. 116).29

## Corps Headquarters

General Guderian spent most of the day with forward elements of his divisions. At 1900 hours he had visited every division headquarters to get a first hand impression. The corps main Tactical Operations Center (TOC) displaced twice during the day, settling at Ettelbrueck for the night. The Tactical Command Post (TCP) set up at Rambruch at 2200. You Kleist issued the Panzer Group's operations order for 11 May to XIXth Panzer Corps at 2000 hours. It was in essence a fragmentary order, simply reiterating the Group commander's intention of clearing and securing the near bank of the Meuse River on 11 May. The Panzer Group allocated additional artillery and engineer assets from the General Headquarters Troop reserve to XIXth Panzer Corps.30

German intelligence reports had proven correct. The enemy provided only limited resistance in the Ardennes and German armor had made fairly decent progress, although, not reaching its objectives. Guderian, concerned about not reaching the day's objectives, would not allow his divisions a very long rest on the night of 10 May. Belgian troops had removed road signs and village name signs, interdicted the entire road network, and successfully placed numerous road craters slowing the advance. The Belgians, however, committed a fatal error by failing to

effectively cover the obstacles with direct or indirect fire (Bodange, the exception to the rule). Consequently, German engineers and assault troops rapidly cleared the obstacles. The majority of obstacles not protected by mine fields, were simply bypassed. The greatest problem the XIXth Panzer Corps faced on the first day of the offensive was not created by the enemy, but by units failing to obey traffic regulations.31

XIXth Panzer Corps as well as other elements of the Panzer Group experienced numerous traffic jams and delays. German infantry divisions, relegated to inferior side roads and tracks, crossed the TMRs at unscheduled times. The infantry armies, pumped full of elan and offensive spirit, found openings between Panzer march groups and some stubborn infantry commanders used TMRs, causing enormous traffic jams. This massive concentration of vehicles created a rather sizeable target, extremely vulnerable to enemy air attacks. Elements of the XIXth Panzer Corps, having priority on the TMR's, at times forcefully attempted to pass interlopers, causing accidents. Tempers flared along the congested march routes. Everyone seemed to concern themselves with their own unit's interests, resulting in a complete breakdown in traffic discipline. All three divisions had units bogged down and stretched back into Germany as late as 2300 hours on the 10th. German supply columns were practically hampered, integrated further to the rear, and could not move forward. Furthermore, the entire traffic management plan was at risk, since XIVth Panzer Corps and XList Motorized Corps, as second and third echelon, relied on the same roads (see Appendix B, March Route Planning). The XIVth Panzer Corps reached none of its march goals on the night of the 10th. It continuously ran up against tail elements of the XIXth Panzer Corps. The use of the Fieseler Storch aircraft for observation aided the Panzer Group, which dispatched staff officers to sort out the worst of the traffic jams. On the evening of May 10, General von Kleist issued an order that, "any unauthorized persons using Tactical March Routes and, using rank to usurp MP authorities risked immediate field court martial proceedings resulting in the severest possible punishment." The term "severest punishment" did not exclude the death penalty.32

The chaos in march discipline resulted from several factors. The MP company commanders, too young and lower in rank, proved unable to enforce traffic rules against higher ranking commanders. Military Police units, not sufficiently trained in their traffic control duties, failed to understand the importance of traffic regulations. Because of negligence and an apparent lack of authority, Military Police commanders failed to enforce the rights of Panzer formations on TMRs. The Military Police, however, were not the sole offenders. Troops were not properly educated or trained, nor were they disciplined enough to follow orders or to subordinate themselves in the overall concept of the operation. The infantry wanted to advance quickly to share in a victory obviously destined for the Panzer arm. In many circumstances infantry commanders purposely prevented Panzer formations from advancing by wrongfully obtaining permission to utilize the Panzer division's TMRs.33

Operation NIWI, although not executed according to plan, was a complete success because the battalion managed to disrupt the enemy's lines of communication. Gasrki's men captured 82 Belgians, but the battalion paid a heavy toll: nine men killed, seven wounded, and three missing. The corps failed to achieve its objectives on the first day even though enemy resistance was lighter than expected. Guderian temporarily halted movements around 2000 hours, probably in an effort to clear up the traffic problems and to allow the divisions to bring supplies forward. In the early evening the XIXth Panzer Corps headquarters received intelligence reports indicating enemy tank formations assemblying and preparing to advance on Guderian's left flank. Based on this information Guderian ordered the 10th Panzer Division at 2250 hours to proceed north—west along the Ruiles—Habich road on the 11th, to secure the southern flank, and to cross the Semoir between Cugnon and Mortehan. The missions for the other two divisions remained unchanged.<sup>34</sup>

Luftwaffe reconnaissance provided excellent information throughout the day enabling Guderian to extend his view of the battlefield well beyond his lead elements. The corps advanced the safety line for bombing to the railroad line "Liege-Marche-Libramont-Neufchateau-Yirton", effective until 1200 hours on 11 May. The 102nd Flak Regiment (-) occupied positions in the vicinity of Bourscheid-Ettelbrueck-Berg-Merch to provide the necessary air defence umbrella for the corps. The 2nd Battalion/102nd Flak Regiment remained attached to the divisions. The 91st Battalion/1st Flak Corps deployed between Echternach and Attert for air defense protection along the corps! Main Supply Route.35

The corps staff's estimate for 11 May predicted heavier enemy resistance along the second Belgian line of defense. Based on the reorientation of the 10th Panzer Division, and 0KH intelligence reports, the XIXth Panzer Corps' intelligence officer evaluated the flank threat as minimal. Thus ended XIXth Panzer Corps' first day of combat in the Battle of France. Casualties had proven light and divisions remained fully combat capable, with the exception of the traffic dispersion to the rear. Corps air defense units shot down three enemy aircraft and over 160 enemy were captured including one french scout car. While the XIXth Panzer Corps' staff prepared orders for the next day's anticipated breakthrough of the Beigian second defensive line at Libramont and Neufonateau, supply officers aged prematurely attempting to move supply columns forward. Guderian, however, did not allow his divisions to rest for very long, instead he ordered them to continue the advance thoughout the night. Lead elements reached the line Nives-Witry at 0430 hours on 11 May. The corps' objective for 11 May was to secure the near side of the Meuse River and, if possible, send forward detechments across the river to establish small bridgeheads.36

OKH's Foreign Armies West correctly predicted the enemy's intentions for 10 May. The French army, as expected, reacted very slowly, resulting in only minor engagements with the

1 Oth Panzer Division along the left flank. By 2100 hours OKH intelligence evaluated reports from signal units monitoring French radio traffic, indicating that the French 2nd Infantry Division (mot) had advanced elements to just south of Namur. Further south, the French 2nd and 3rd light Cavalry Divisions advanced forward to Arlon and Esch. A captured enemy operations order, however, revealed they were only to remain there long enough to ensure destruction of the vital industrial complexes at Esch. The most critical information that OKH Foreign Armies West needed next, to develop a clear picture of the enemy's operational intentions based on the German attack, was to determine the fate of the divisions along the Maginot Line and the forward defenses facing the southern elements of 16th Army and Army Group C.37

# Saturday, May 11, 1940

The eve of Whitsunday, promised to be another beautiful day. The weather report predicted more of the previous day's sun and cirus clouds. At 0745 hours, Panzer Group von Kleist reported the latest positions of XIXth Panzer Corps to Army Group A, as being along the line Yaux les Rosiers-Witry-Rossignol-Belle Fontaine. The night was rather uneventful, with the exception of a disagreement, between Generals Guderian and von Kleist, on the employment of 10th Panzer Division.38

XIXth Panzer Corps received a message at 0030 hours on 11 May, ordering the immediate halt of 10th Panzer Division. The Panzer Group, anticipating a French motorized threat on the left flank, wanted the 10th to establish a hasty defense between Etalle and Arlon to secure the group's exposed flank. Guderian vehemently disagreed with this concept, but did not request to have the order rescinded nor did he after the 10th Panzer Division's orders. The XIXth Panzer Corps' commander waited until 0430 hours to call the Panzer Group's Chief of Staff, Zeitzler,

demanding adherence to the original plan. The corps commander further explained to Zeitzler that he did not view the potential flank threat significant, and that turning the 10th Panzer Division northwest already negated any possible threat. Guderian insisted that the Meuse River operation remain the main effort and that any diversion of forces would endanger its outcome. Flank protection in his opinion was the responsibility of follow on divisions. Shortly after their lengthy telephone conversation, Zeitzler called back and informed XIXth Panzer Corps' chief of staff that after having discussed the issue with General von Kleist, the Panzer Group agreed with Guderian's concept and rescinded the order. Having weathered this storm, Guderian departed the corps Tactical Operation Center for the divisions' headquarters to discuss the day's operations with his subordinate commanders 39

The three Panzer divisions continued to press the attack throughout the night until about 0430 hours, when units occupied defensive positions for a rest. The corps reached the line of Nives-Witry in the north, however, iOth Panzer Division became bogged down in the forested area around Anlier and Rulles making progress during the hours of darkness virtually impossible. Guderian's orders for the 11th called for reaching the Meuse River, but like 10 May, enemy road destruction and epstacles prevented XIXth Panzer Corps from reaching its objectives.

## Second Panzer Division

The 2nd Panzer Division faced stiff resic\*ance at Libramont, but secured the town at 1500 hours. It was the first division to break through the second Belgian defensive line, but again was slowed by numerous road obastacles. At 2100 hours the 2nd Panzer Division's main combat elements reached Ochamps, about five kilometers west of Libramont. The advance guard pushed as far west as Paliseul, which is about 15 kilometers from Libramont. The division operations

officer established the command post at Ste. Marie (see Map five, p. 117).40

### First Panzer Division

General Guderian's intention for the 1st Panzer Division on 11 May was to break through the second Belgian defensive position at Neufchateau and, if possible, exploit towards Sedan. The division, however, did not begin its advance until noon. Obstacles and mine fields forced its halt. In all probability, needed supplies and fuel contributed as much to the halt as the required engineer work. In the division's rear, traffic conditions remained confused. The Belgian Chasseurs Ardennais continued their withdrawel, offering little resistance, but added to the confusion by removing road signs and village name markers. Chasseurs Ardennais' engineers conducted numerous road demolitions, leaving holes six to eight meters in depth, ranging in diameters from 15 to 20 meters. Like the day before the Belgians laft the obstacles undefended. Therefore they again had little effect other than delaying the Germans' advance and forcing the engineers to expend an inordinate amount of time, energy, and technical equipment.41

Shortly after 1500 hours, the 3rd Battalion of Balcks infantry regiment, supported by the 2nd Battalion/56st Artillery Regiment secured Neufchateau. Earlier in the day, much of the 73rd Artillery Regiment and the 1st Panzer Brigade, commanded by Colonel Karl Keltsch,42 remained mired in traffic east of Bodange. After noon, however, with the fall of Neufchateau elements of the 1st Panzer Regiment advanced to Grapfontaine, while available units of the 2nd Panzer Regiment captured Petivoir.43

First Panzer Brigade, now reinforced with the division's reconnaissance battalion and supported by the 1st Battalion/73rd Artillery Regiment exploited the breach in the Belgian defensive line and continued the advance west. At 1700 hours this reorganized advance guard of

1st Panzer Division, for the first time, encountered troops of the French 5th Division Legere Mecanique at Bertrix. OKH intelligence had done its work, and French intervention forces appeared as predicted on the afternoon of 11 May.44

After a short engagement, the French retreated westward, and the Panzer Brigade continued Captain Wedige Graf von der Schulenburg's 3rd Company/1st its advance to Bouillen. Battalion/1st Panzer Regiment led the advance through the Foret de Bouillon, arriving at the outskirts of the town at 1800 hours. Bouillon is a key defile on the Semois River leading to the Meuse River at Sedan. You der Schulenburg's company immediately received fire from the French and Belgian anti-tank guns positioned on the west bank. Air reconnaissance, however, reported a stone bridge just upstream of the city as still standing. Colonel Keltsch promptly ordered 4th Company/1st Battalion/1st Panzer Regiment, commanded by First Lieutenant Ernst Phillip, to seize the bridge by a coup de main. During the attempt Phillip's tank was put out of action, forcing him to mount one of his platoon leader's tanks to continue the assault. The French managed to blow the bridge just as Phillip was ready to cross it. The 1st Battalion's commander in the meantime sent the 2nd Company to assist von der Schulenburg in Bouillon. Since, however, the 1st Panzer Regiment's reconnaissance platoon located a ford, the 2nd Comapny's commander decided to use it instead and crossed the river to the west bank. Simultaneously, 25 Stukas mistakenly attacked Bouillon and the west bank, adding confusion to the already ongoing battle, forcing Keitsch to withdraw 1st Battalion from the city and the west bank.45

French resistance began to dwindle soon thereafter. Under the cover of darkness the 1st Motorcycle Battalion located another ford near Mouzaive, just north of the 10th Panzer Division's main spearhead, crossed the river and established a small bridgehead. Third Company/1st Battalion/1st Panzer Regiment immediately followed the motorcyclists to reinforce them. Later in the night the 2nd Battalion/2nd Panzer Regiment crossed the river to help expand the

bridgehead. By 2100 hours the 1st Panzer Division had advanced 100 kilometers in two days and made up its shortcomings of the previous day. The division staff set up at Bertrix. The division stood at the outskirts of Bouillon, managed to seize a bridgehead, and was just five kilometers short of the French border, and 20 kilometers from Sedan, but that battle would have to be fought another day (see Map five, p. 117).46

## Tenth Panzer Division

The 10th Panzer Division spent another interesting day, since both the order to turn northwest and numerous obstacles and road demolitions in the Foret d'Anlier and Foret de Ruiles caused it to be considerably behind the other two Panzer divisions. By 2330 hours, its lead elements reached Straimont and Suxy. The division's staff set up at Mellier. Although jurced to change its direction on this second day of the offensive, the division's staff and units performed well. The dispute over its objective bewildered both XIXth Panzer Corps and General Schaal (see Map five, p. 117).47

# XIXth Panzer Corps

The controversy of 10th Panzer Division's objective continued to plague the corps staff throughout I1 May. While Guderian was at the front, General von Kleist visited the corps Tactical Command Post. After an operations update by Colonel Nehring, von Kleist recommended that the 10th Panzer Division be directed toward Florenville to roll up the Semois defenses from the south. The corps chief of staff, however, pointed out that the division was previously redirected to the northwest and had probably already reached the area south of Neufchateau. Nehring went on

to emphasize that massing the corps' forces for the Sedan operation was a precondition. Diverting 1 Oth Panzer Division again would further slow the division's advance. After listening to Nehring, von Kleist departed without providing an answer, and 10th Panzer Division's orientation remained unchanged. At 1600 hours an orderly officer from the Panzer Group delivered a message from the operations officer of Army Group A, directing 10th Panzer Division's advance along the southern bank of the Semoir River. Shortly thereafter the Panzer Group operations officer came to the XIXth Panzer Corps' Command Post and, after being briefed by the chief of staff recommended that at least the division's Panzer brigade ought to advance toward Florenville. He also stressed that OKH supported the concentration of strong forces toward Florenville.48

By late afternoon 10th Panzer Division advanced for enough northwest to preclude any change in orders, for the infantry brigade, IR "GD", nor the Panzer brigade, toward Florenville. To satisfy the wishes of OKH, however, XIXth Panzer Corps ordered 10th Panzer Division at 1700 hours to organize and dispatch a battalion task force to Florenville.

It is interesting to point out that, less than 24 hours before, the Panzer Group ordered the halting of 10th Panzer Division to secure the left flank, because the group feared a counter attack. General von Kleist's staff required thorough convincing by both Nehring and Guderian to change their attitude about that alleged threat. On the afternoon of 11 May, however, the Panzer Group advocated the complete opposite and supported a quick advance to Florenville, disregarding flank protection altogether. Florenville was well within range of Franch artillary units along the Maginot Line. The corps command group, however, not overly concerned with its latest order to 10th Panzer Division, displaced the corps Tactical Command Post to Neufchateau. Nehring probably figured that 10th Panzer Division would resist the order anyway and develop a reasonable excuse to be freed from the mission, however, in the meantine he satisfied higher headquarters' requirements. After numerous detours, the small staff reached its destination at

2100 hours and found the city deserted. Guderian returned from the front a short time thereafter. He was in an ebullient mood and spent several minutes describing heroic deeds of soldiers to his staff.50

In the meantime, General Schaal pondered over the corps' order he received at 1700 hours, but took no serious action to execute the directive. At 2330 hours, Schaal personally contacted the corps' Tactical Command Post by radio and reported that the formation of a battalion task force was impossible. He explained that the 10th Panzer Division's three columns, would be required to secure Straimont and Suxy. Like any good officer, however, Schaal recommended an alternate solution to his corps commander. He suggested that the advance guard of YIIth Corps provide flank security with the 29th Infantry Division (mot) advancing to Florenville. Guderian immediately agreed with this idea, since it would keep his corps intact while still conforming to OKH's intent of securing the couthern flank. XIXth Panzer Corps notified Panzer Group von Kleist of this suggestion, and von Kleist also agreed. The Panzer Group issued orders to the 29th to dispatch its advance guard to Florenville. Guderian, although narrow minded in his concept of the overall mission, maintained his freedom of action and probably prevented a stalling of the main effort through a diversion of 10th Panzer Division.51

On 11 May XIXth Panzer Corps made significant progress. Air and ground intelligence deserved substancial credit because they kept the corps' staff informed. Air reconnaissance, throughout the day confirmed that there were no major enemy movements into the Ardennes. There were, however, reports of French columns advancing towards the area of Sedan-Carignan-Montmedy-Virton. Single French motorized columns, bicycle units, and horse drawn units crossed into Belgium at Bouillon, Florenville, Geronville, and Virton. There were no reports of significant movements west of the Meuse River. Enemy bombers and fighters began to appear in the sky, but their intervention remained very weak.52

On 11 May OKH intelligence estimates again proved correct. French and British forces moved to the Dyle River, taking the bait of the feint in the north. The Belgian cavalry division and the Chesseurs Ardennais continued to delay to the Semois River. The most important information, however, was that the Franch did not extract forces from their Army Group 2 to reinforce the Sedan-Dinant sector, verifying they had not yet identified this sector as the main Cerman effort. Heavy rail traffic between Hagenau, Searalben, and Berndorf led OKH to conclude that the French also expected a German attack against the Maginot Line. All retreating Belgian forces were moving toward the Dyle River. By evening of 11 May, OKH Foreign Armies West positively identified the Allied main effort along the Dyle River.

The XIXth Panzer Corps' intelligence officer analyzed the available information from OKH, Army Group A, Panzer Group von Kleist, air reconnaissance elements, and prisoners of war and, combined with stiffer resistance on 11 May, determined that the enemy had recovered from the initial shock and would provide a more organized defense in the future. The northwest troop movements in the Sedan-Carignan-Longuyon sector indicated the enemy's intention of strengthening the Semois sector, suggesting a fierce fight between the Semois and the Meuse on 12 May,54

The second Belgian defensive line did not present as tough an obstacle as anticipated, probably because the Belgians never had an opportunity to occupy their intended positions. During 11 May, the XIXth Panzer Corps' situation developed according to plan, but again still did not achieve its objectives. The traffic situation remained chaotic, but less of a hindrance than the previous day. It rapidly became clear that the centralized traffic control suffered from faulty organization and a lack of signal assest, which precluded a timely response to higher headquarters' needs. Logistics ran smoothly, primarily because the system had not been sufficiently taxed yet. The rapid advance combined with minimal resistance contributed to low consumption of fuel and

ammunition, and most importantly it kept operational losses in terms of men and supplies at a minimum.55

Guderian's concept or intent for the operation remained the same and his staff issued the corps' order shortly before midnight. For 12 May, orders reiterated the crossing of the Semois River, the clearing of the enemy from the northern bank of the Meuse River, and, if possible, the establishment of small bridgeheads across the Meuse. Guderian directed the 1st and 2nd Panzer Divisions to debouch from their Tactical March Routes to facilitate XIYth Panzer and XList Motorized Corps' deployment on the right and left of XIXth Panzer Corps. Second Panzer Division would cross the Semois at Membre and Alle, and toward Sugny. First and 10th Panzer Divisions routes remained the same. IR "GD" became the corps reserve. The Panzer Group's operations order, although issued at 2100 hours on 11 May, did not arrive at the XIXth Panzer Corps headquarters until 0545 on 12 May. Fortunately it mirrored Guderian's intentions, since it would have been too late to make any changes. A comment berating XIXth Panzer Corps' failure in achieving the objectives set by the Panzer Group on 11 May caused the tempers of both Guderian and Nehring to flare up. The subject of this statement continued to strain the relationship between the steffs of XIXth Penzer Corps and Penzer Group von Kleist, and became the topic of several heated discussions on 12 May. The 12th of May, Whitsunday in Germany, when all young Catholics receive their first holy communion, would start with another confrontation between von Kleist and Guderian.56

# Suadey, May 12, 1940

May 12, 1940 was a clear and warm day and proved to be one of the most successful days of XIXth Panzer Corps. By the end of Whitsunday, the corps was in position to strike across the

Meuse River, and commence one of the more successful exploitation operations in modern military history. Even though the advance on 10 and 11 May had not achieved the daily objectives, the corps made up all its shortfalls on the 12th. XIXth Panzer Corps' advance between the Semois and the Meuse Rivers proved so successful that Guderian's tankers reached the Sedan sector in two and one-half days instead of the planned three.

First, however, the business of XIXth Panzer Corps' pride needed to be settled. Colonel Nehring telephoned his counterpart at Panzer Group at 0630 hours, and vehemently protested the context of the intent paragraph of the Panzer Group's Fragmentary Order Nr. 2 from the previous night. Nehring reminded Zeitzler of the difficult road conditions and the elan with which XIXth Panzer Corps tackled its missions over the past two days. The corps chief of staff further insisted that the soldiers were doing their heat and, the divisions not reaching their designated goals was not the fault of XIXth Panzer Corps, but rather that of the Panzer Group in assigning objectives too distant. Colonel Zeitzler finally agreed with Nehring and recognized the divisions' schievements. This newly established truce, however, only leated a short time.57

## Second Panzer Division

Second Panzer Division spent a frustrating day and was unable to reach the Meuse River by nightfall. Prior to crossing the Semois River, the division resorted to several detours because the enemy destroyed virtually all main roads. In spite of these difficulties, the division crossed the Semois at 0900 hours at Yresse, but a lack of roads between the Semois and Meuse Rivers, and constant enemy artillery interdiction resulted in a significant slow down. By nightfall the 2nd Panzer Division reached Bosseval, seven kilometers from the Meuse River. General Yeiel hoped to gain the Meuse at Donchery sometime during the night of 12 to 13 May (see Map six, p. 118).58

### First Panzer Division

The 1st Battalion/1st Infantry Regiment supported by two platoons of tanks from the 1st Panzer Regiment and the 2nd Battalion/73rd Field Artillery Regiment began its attack on Bouillon at 0500 hours and secured the town by 0745 hours, at which time the engineers began construction of a bridge over the Semois. The enemy resisted with artillery and bombing attacks. German tanks, crossing a ford, pursued in search of their next objective, the heights just north of Sedan. At 0930 hours lead elements of the 1st Panzer Division crossed the French border, and with German forces prepared to approach the Meuse, the Luftwaffe directed its aircraft to switch to targets on the south bank of the river.59

Elements of the French 5th Division Legere Mecanique remained on the north bank of the Meuse, but with only twelve tanks could put up little resistance. Lead elements of the 1st Panzer Regiment entered the forest east of Sedan near 1030 hours. About the same time French artillery began to interdict the defiles and roads leading into Sedan. Its aim was so accurate that at times single soldiers and vehicles were taken under fire. The interdiction fire, however, did not stop the German tanks. At 1100 hours the 2nd Battalion/2nd Panzer Regiment exited the Foret de Ardennes north of St. Menges, while the 3rd Battalion/1st Infantry Regiment debouched from the Ardennes north of Sedan. The German soldiers observed smoke rising from Sedan, where the Luftwaffe just finished a bombing raid. In the meantime 2nd Battalion/2nd Panzer Regiment continued its advance to St. Menges. Above them across the Meuse the Bois de la Marfee looked down upon them, the site where Emperor Napoleon III surrendered to King Wilhelm I of Prussia in 1870.60

The 1st Panzer Divison covered the last 20 kilometers from the Semois River to the Meuse

River in four hours, covering the entire distance from its original assault positions at the Luxembourg border in just 60 hours. The rest of the division spent the afternoon hours clearing the north bank of the Meuse. Most of the corps' artillery, Flak, and infantry Regiment "GD" remained stuck in traffic sast of Bouillon. Balck's infantry regiment occupied Fleigneux and St. Menges at 1800 hours and the division Command Post set up in a small forest house two kilometers from Fleigneux. First Panzer Civision certainly achieved its main objective on 12 May, but a crossing of the Meuse could not be accomplished. Retreating across the Meuse, the French destroyed all bridges with the exception of the ones in Sedan, which they was at 2045 hours, thus curtailing any attempt to capture them by a coup sie main. In any event, the division staff was busily preparing for the river crossings the following day (see Map seven, p. 120).61

### **Tenth Panzer Division**

The 10th Panzer Division did not rest during the night of 11 to 12 May, but continued its advance, crossing the Semois between Cugnon and Mortehan before daybreak. At 1000 hours lead elements reached the Bouision-Florenville road, but like the 2nd Panzer Division, made only slow progress from that point on. Road conditions and traffic proplems continued unabated, particularly since all vehicles had to pass through the few defiles debouching into the Meuse Piver valley. Finally, near 2400 hours the 10th Panzer Division began to deploy about Sedan.62

Enemy artillery, as previously mentioned, interdicted the XIXth Penzer Corps' march routes with deadly accuracy. Only the 1st Battalion/73rd Field Artillery Regiment deployed forward, in support of 1st Penzer Division. It occupied firing positions along clearings of the Foret de Sedan, north of Fleigneux. Later in the day, the 2nd Battalion/73rd Field Artillery Regiment also managed to get forward and occupied firing positions near Corbion. From observation points north

of Fleigneux the two artillery battalions supported the infantry attacks at St. Menges and Fleigneux. Although the enemy was driven from St. Menges and Fleigneux, French artillery continued to engage German units, along the Meuse approaches. The remarkable effect of French artillery resulted from the enemy's thorough knowledge of the terrain. The rest of the 73rd Artillery Regiment did not partake in any of the day's action, since it remained behind stuck in traffic (see Map six, p. 118).63

# XIXth Penzer Corps

There was no doubt in anyone's mind that the XIXth Panzer Corps had to reach the Meuse River on 12 May to maintain the element of surprise. General Guderian departed at 0630 hours to personally influence his divisions' actions. He returned at 1545 hours to the new corps command post, located at Bouillon. Shortly after his arrival the Command Post was relocated to Noirefontains, because the enemy continued to bomb Bouillon. At 1715 hours the Command Post moved a third time, when the enemy shifted the bombings to Noirefontains. Nehring opted for a forest not far from Noirefontaine.64

The Luftwaffe would play a significant role in the Meuse River crossings at Sedan. General von Stutterheim, commander of the 2nd Close Air Support Group assigned to Guderian for May 13, visited the corps at 1700 hours to confirm the prearranged Luftwaffe support. Guderian and von Stutterheim agreed in early May that the Luftwaffe (Stukas or fighters) should systematically engage designated target areas and individual targets, and be incorporated as part of the artillery Fire Support Plan (see Appendix K, Meuse River Crossing Planning Information). The aim of this coordinated air and artillery assault was the programmed destruction of the enemy's artillery batteries prior to the river crossings. XIXth Penzer Corps' chief of staff, at 1750 hours,

published a warning order for 13 May, since Panzer Group von Kleist issued neither an operations order nor a directive by late afternoon. The order went out immediately and directed the divisions to prepare for the river crossing on 13 May. As a precondition, the divisions were required to advance to the east bank of the Meuse River on the 12th, and pull all artillery and engineer assets forward. Specific instructions, they were told, would follow later in the night. At 1800 hours a Fieseler Storch landed near the corps Command Post to pick up General Guderian for a meeting at the Panzer Group's headquarters at Ebly.65

General von Kleist conducted the meeting and stated that time was of the essence. Yon Kleist did not want to lose the element of surprise, so he directed Guderian to cross the Meuse at 1600 hours on the following day. You Kleist and Guderian, however, did not share the same concept of the operation. The Panzer Group commander met with General Sperrie, 3rd Air Fleet commander, earlier in the day and they agreed on a massive bombing attack on large zones rather than on specific targets to isolate the battlefield. This did not fit into Guderian's scheme of systematic destruction of the enemy's artillery. Yon Kleist refused to change his mind, while Gudarian kept insisting that the Group's artillery assets were not strong enough, and that they could not be brought forward in time. Under these circumstal es, Guderian recommanded a postponement of the crossings until the morning of 14 May, so that a more thorough preparation could be made. The group commander rejected that proposal too. General you Kleist was one of the more soft spoken gentlemen of the senior German commanders. He was chosen to lead the Panzer Group because General Halder wanted someone with strong leadership capabilities, uet clever enough to not be too bold or foolish. General Guderian required strong control at times, and General von Kleist was familiar with his subordinate's penchant for exitability and enthusiasm. Yon Kleist knew he had to strike while the iron was hot, therefore cut short any further discussion, and told him to obey his orders.66

Guderian, earlier disregarding his commanders intent, maneuvered the XIXth Panzer Corps to a different location for the crossings than you Kleist had anticipated. General you Kleist wanted to cross the Meuse between Sedan and Flize with the main effort west of the Ardennes Canal. The advantage of this maneuver kept the Panzer Group in the proper operational heading (west) and would avoid having to make two additional river crossings over the Baar Stream and the Ardennes Canal. This also supported Army Group A's and OKH's operational concepts. Crossing east of the Ardennes Canal restricted initial movements to the south, an unnecessary waste of time, people, and material. You Kleist personally discussed this concept with Guderian on 9 May, and also incorporated it as part of the intent statement in Panzer Group Order Nr. 2, issued on 11 May 1940.67

Unfortunately, Guderian's divisions were positioning themselves east of the Ardennes Canal. At the meeting, Guderian explained that he could not carry out von Kleist's concept without a delay of the attack until 14 May. You Kleist rejuctantly agreed with the stubborn tanker, since he did not want to sacrifice an extra day. The remainder of the meeting consisted of coordinating the next day's attack. While in route back to his Command Post, Guderian's pilot became misoriented and mistakenly strayed over French lines. Fortunately for Guderian, they were undetected and managed to return and land safely near Noirefontaine.68

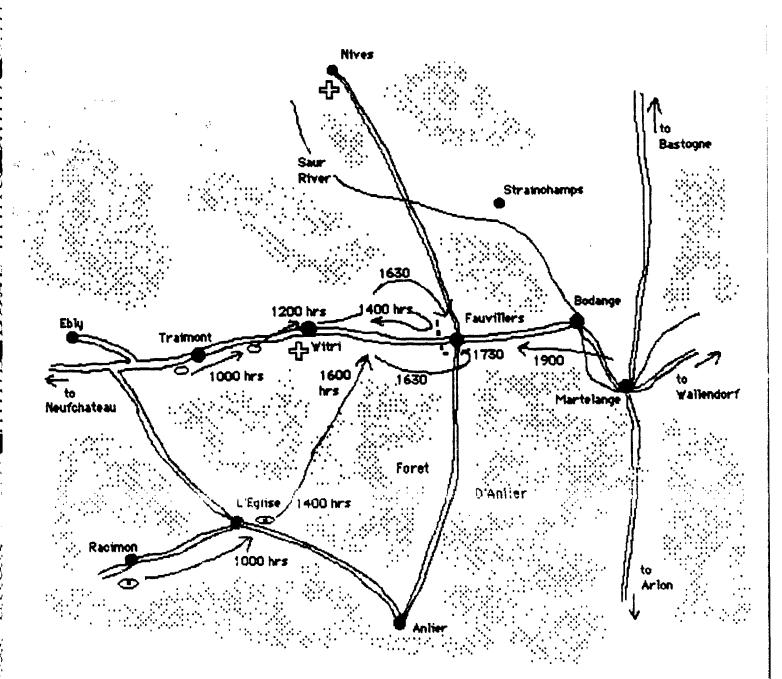
In the German rear traffic problems continued unabated. Elements of the 16th Infantry Division decided to use one of the Tactical March Routes, and as a result blocked the XLI Panzer Corps' advance guard, precluding it from reaching the Meuse River on schedule. Army Group A intervened and ordered the infantry unit off the road in the vicinity of Witrl. Further south, the 29th Infantry Division (mot) was also hampered in its advance. A later investigation revealed that the traffic problems on 12 May occurred because of irresponsible leaders and drivers, mostly with only single vehicles. Even though the roads were taxed beyond limits, supplies still

moved forward. There were no complaints from units of shortages of ammunition or fuel. The Panzer Group, however, did request the delivery of 13,000 gallons of fuel by air at 1400 hours to XIXth Panzer Corps. The Luftwaffe responded with delivering 5,200 gallons of fuel west of Fay les Yeneurs.69

On 12 May OKH's Foreign Armies West section placed the Allied intelligence picture into clearer focus. OKH intelligence determined with certainty that the enemy would defend along the line: western holland, Antwerp, the Dyle River line, and the Meuse River, from Namur, to its connection with the French Maginot Line. Foreign Armies West dismissed any danger of a flank attack from the north through the Ardennes, but did begin to focus on the more vulnerable southern flank. Aircraft spotted two columns of vehicles early in the day, one heading from Rocroi to Fumey and another from Youziers to Mouzon. The Luftwaffe struck both columns, however, precise damage reports were not available. On 12 May, the French again did not pull any units from the Maginot Line. In addition to OKH intelligence reports, XIXth Panzer Corps' air reconnaissance elements provided continuous information throughout the day. The corps' intelligence officer rated the enemy in front of the Panzer divisions as weak, but expected a strong defense of the Meuse by the French 55th Infantry Division on 13 May. 70

XIXth Panzer Corps used all of the remaining 20 hours to prepare for the Meuse crossings. Nehring and his staff worked the entire night to finalize the corps operations order. Since the intended plan almost mirrored one of the war games conducted along the Moselle River, Nehring simply changed dates, times, and incorporated specific information and changes coordinated at the group's commanders meeting. The order, finally published at 0815 hours on 13 May, left little time for the divisions to react (see Appendix K, Meuse River crossing).71

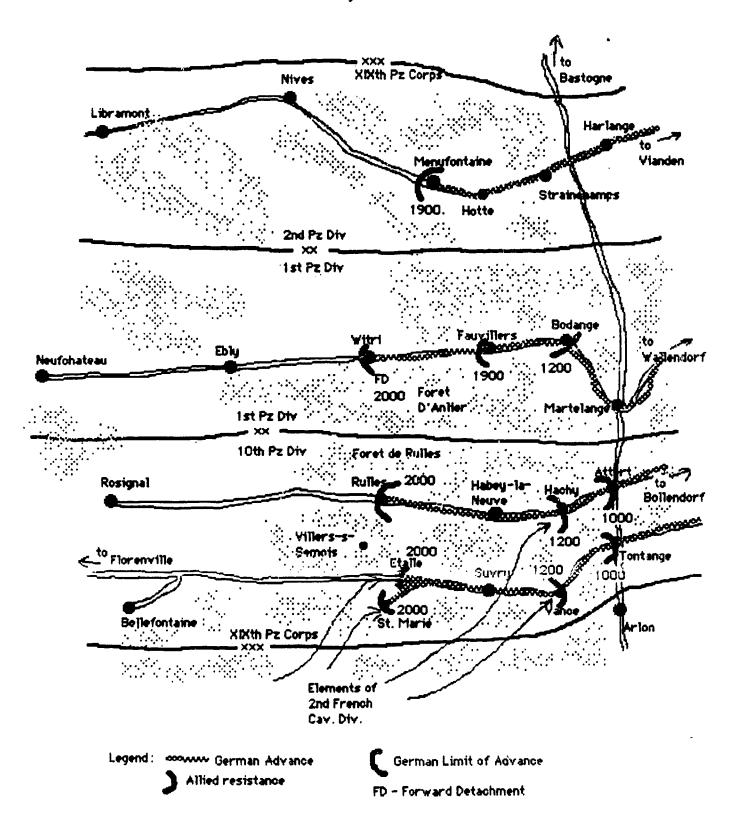
Map Three Operation NIWI...

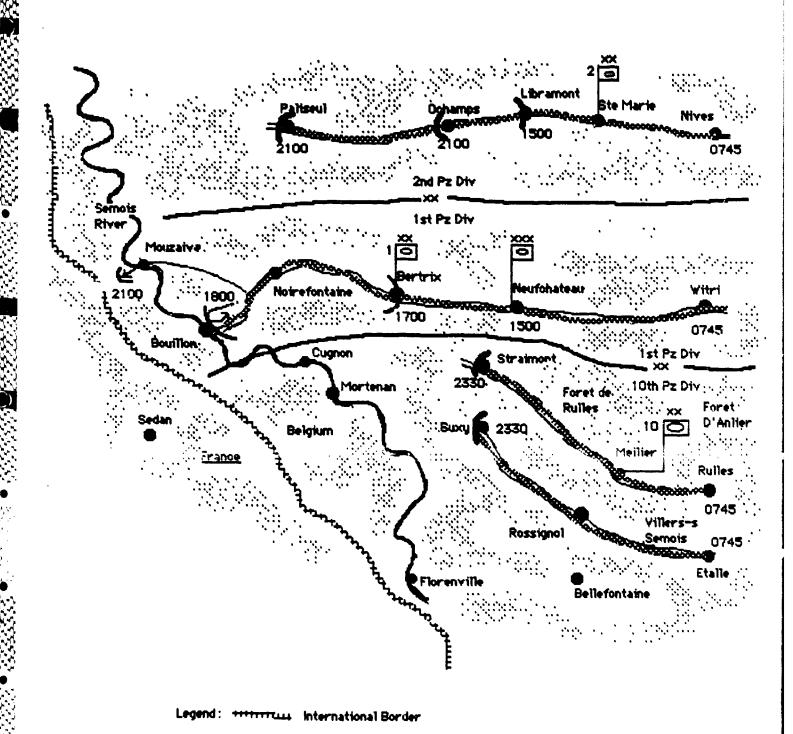


Legend: Planned Landing Zone

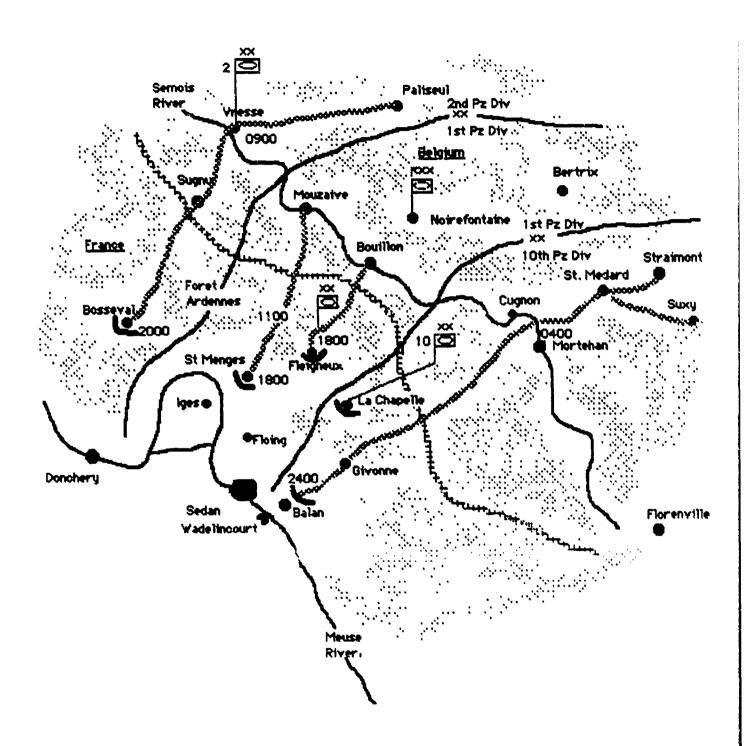
- Actual Landing Zone (Group North)
- Actual Landing Zone (Group South)

Map Four 10 May 1940





Map S1x 12 May 1940



#### END NOTES

#### **CHAPTER FOUR**

1 Below, Als Hitlers Adjulant 1937-45, p. 229.

2Krisgetagebuch (KTB) XIX.A. K., Verlauf des 9.5.40., Der Durchbruch zum Aermelkanal. Herstellung der Marschbereitschaft des XIX.A. K. The Tactical Command Post of XIXth Panzer Corps consisted of General Guderian, his chief of staff, the operations officer, the close air support officer, two messenger officers, a signal officer, the corps engineer officer, and several clerks.

31 bid.

4KTB XIX. A. K., 10. 5. 40., Yerlauf des 10. 5. 40., Yormarsch durch Luxembourg., Durchbruch durch die suedbeigischen Befestigungen u. Ardennen.

5The Lehr und Bau Bataillon z. b. Y. 800 (800th Instruction and Construction Battalion for special disposition) is more commonly known as the "Brandenburgers". This unit originated in upper Silesia as an Industrial Complex Protection Unit (Industrieschutz Oberschlesien) after World War I, when local Silesians feared an investon by Poland. The members were primarily of Polish origin, however, sympathetic to Germany. If Poland invaded, the unit would seize important industrial complexes and hold them until relieved by German troops. The cadre of Lehr und Bay Batallion z. b. Y. 800 came from the Industrial Complex Protection Unit. In October 1939 Admiral Canaris instructed its leader Captain von Hippel to occupy an empty barracks in Brandenburg, and organize the Lehr und Bau Kompanie z. b. Y. Hence the unit was nicknamed the "Brandenburgers". This company later grew to division size, and participated in every German theater of the war, Melchers, Kriegsscheupletz Luxembourg 1914 1940, pp. 300-301; Generalkommando XIX. A. K. Abt. Ic. Nr. W 606/40 g. Kdos., den 25. 4. 1940., Betr: Studie "Sonderkommendos"; Generalkommedo XIX. A. K. 1c Nr. W 614/40 g. Kdos; Armee -Oberkommando 16 Abt. la/lc Nr. 157/40 g. Kdos., A. H. K., den 24. April 1940., Betr: Reichsdeutsche in Luxembourg; and Generalkommando 12 la/lc/Ao. Nr. 1860/40g., A.H.Qu., den 11. April 1940., Betr: Zuweisung eines Sonderkommendos füer Aufgaben Abw. il. Für a more thorough history of the Brandenburgers, see Sepp de Giampietro's Pas Falsche Opter Ein Suedtiroler ('in der Division Brandenburg.) zwischen seinem Gewissen und der Achse Berlin-Rom (Stuttgart: Leopold Stocker Yerlag, 1984)

6Melchers, op.cit., 302-348.

7Heeresgruppe A. Abt. O. Qu. I., den 3. Mai 1940. Intelligence update on enemy activity in Euxembourg and Belgium from 20 to 28 April 1940.

9Melchers, op cit., pp. 322-325.

91 bid., pp. 330-331.

101bid., pp. 308-312.

11At the end of the first day, the German airforce destroyed 40% or 320 airplanes of the French Northeast-Zone air force assets. The British lost 474 planes; Dach, *Panzer durchbrechen eine Armeestellung*, Nr. 2, pp. 63-64.

12Melchers, ap cit., p. 383; Dach, ap cit., p. 66; and XIX. A. K. KTB, 10. 5. 40.

13Krueger's group landed at two locations about 10 kilometers from the designated landing zone. Garski's group also landed at two locations, but only three kilometers from their intended landing zone. Dach, *op cit.*, Nr. 2, p. 66-67; XIX. A. K. KTB, 10. 5. 40; and Tagesmeldung by XIXth Panzer Corps to Panzer Group von Kleist, signed by Colonel Nehring.

14Horne, To Lose a Battle France 1940, pp. 214-215; Dach, op cit., p. 66; and Melchers, Kriegsschauplatz Luxemburg, pp. 385-386.

15Dach, ap cit, p. 66; KTB XIX. A.K., 10. 5. 40; and Abendmeldung 17,00 Uhr. Gen. Kdo. XIX. A. K. an Gruppe von Kleist (Major Beyerlein an Rittmeister Klewitz).

16Melchers, *ap cit.*, p. 385.

17Rudolf Veiel was born in Stuttgert on 10 December 1883. He joined the army as cadet in 1904 and became a lieutenant in the 19th Uhlan Regiment in 1905. After World War I Veiel remained in the Reichsheer. In 1938 he assumed command of the 2nd Panzer Division. During World War II, Veiel commanded the 2nd Panzer Division throughout the French Campaign. Other commands were: 48th Panzer Corps from February 1942 to May 1942, Commander Reorganization and Refit Staff Center from September 1942 to June 1943, acting Commander 5th Corps from September 1943 to July 1944. Because of his connection to the resistance, Veiel was relieved of his duties in July 1944. Highest rank achieved during World War II was General of Armored Troops on 1 April 1942. After the war, General Veiel retired to Stuttgart where he died in 1956. Keilig, Das Heer 1933-1945, p. 348.

18Franz Josef Strauss, *Geschichte der 2. (Wiener) Panzer-Division* (Friedberg: Podzun-\*Pailas-Verlag, 1987), pp. 46-47.

19Friedrich Kirchner was born in Zoebigker/Leipzig on 26 March 1885. He entered the 107th Infantry Regiment in 1906 and received his lieutenant's commission in 1907. In 1911 he transferred to the 17th Uhlan Regiment. After World War I, Kirchner remained in the Reichsheer. Between '33 and '38 he commanded a cavalry regiment, an infantry regiment (mot), and an infantry brigade (mot). In 1938, Kirchner became a general officer and in November '39 he assumed command of the 1st Panzer Division. From '41 to '45 he commanded the 57th Panzer Corps. Highest rank achieved: General of Panzer Troops in 1942. Keilig, *ap cit.*, p. 163.

20Waiter Krueger was born in Zeitz on 23 March 1892. He entered the 181st Infantry Regiment in 1910. Krueger received his commission in 1911 in the 19th Hussar Regiment. After World War I he remained in the Reichsheer. Krueger commanded the 10th Cavalry Regiment in 1937, and in November 1939 he took command of the 1st Infantry Brigade (mot.)1st Panzer Divison. He assumed command of the 1st Pz Div in 1941, 58th Panzer Corps in 1944, and became acting commander of 4th Corps in April 1945. Highest rank achieved: General of Panzer Troops in 1944. Keilig, ap cit., p. 183.

21Anlage 5 zu Gruppe von Kleist 1a/op. 217/40 g. Kdos.-Chefs., 9. 5. 40., Betr: Besondere Anordnungen füer das Ueberwinden der Befestigungen, Sperrungen u. Yormarschstreifen; Korpskommando XV. A. K., Abt. la Nr. 76/40 g. Kdos., 16. 3. 40., Korpsbefehl fuer den Angriff. OKW allocated the use of Special Operations type forces for Fall Gelb, in particular to prevent the demolition of seven road and railroad bridges in the Ettelbrueck-Diekirch area. Twenty-three members of the Brandenburg Regiment, dressed in civilian clothes, infiltrated ahead of 1st Panzer Division's sector with the mission of preventing the destruction of those bridges. Pro German Luxembourg men were also recruited and some even trained in Germany, but their sloppy work alerted the Luxembourg authorities in their attempt to capture police and border guards. By 0200 on the night of the 10 May the Luxembourg government ordered the closing and locking of obstacles. General kommando XIX. A. K. Abt. Ic. Nr. W 606/40 g. Kdos., den 25. 4. 1940., Betr: Studie "Sonderkommendos"; Generalkommedo XIX.A. K. Ic Nr. W 614/40 g. Kdos; Armee-Oberkommando 16 Abt. la/lc Nr. 157/40 g. Kdos., A. H. K., den 24. April 1940., Betr: Reichsdeutsche in Luxembourg; and Generalkommando 12 la/lc/Ao. Nr. 1860/40g., A.H.Qu., den 11. April 1940., Betr: Zuweisung eines Sonderkommandos fuer Aufgaben Abw. II.

22 Hermann Baick was born in Danzig-Langfuhr on 7 December 1892. He entered the 10th Jaeger Battalion in 1913 and received his commission in 1914. After World War I, Balck remained in the Reichsheer. From '38 to '39 he worked at OKH and in October '39 he assumed command of the 1st Infantry Regiment (mot.). Other commands in World War II included: 3rd Panzer Regiment, December '40; 2nd Panzer Brigade, May '41; 11th Panzer Division, May '42; Infantry Division "Grossdeutschland", April '43; 40th Panzer Corps, November '44; 4th Panzer Army and later Army Group G at the end of the war. Highest rank achieved: General of Panzer Troops in 1943. Keilig, op cit, p. 13; and Balck, Ordnung im Chaos Erinnerungen 1893-1948.

23XIX. A. K. KTB, 10.5.40; and Hermann Balck, Ordnung im Chaos Erinnerungen 1893-1948 2. Edition (Osnabrueck: Biblia Yerlag, 1981), p. 268.

24Horne, op cit., pp. 199-200.

25Balck, op cit., p. 268; and Melchers, op cit., pp. 378-379.

26Gerhard Schmidt, Regimentsgeschichte des Panzer-Artillerie-Regiments 73 (Bremen: Walther Boettcher Verlag, 1959), p. 32; and Dach, op cit., p.65.

27(bid; and KTB Gen. Kdo. XXII. A. K. (Gruppe von Kleist), Durchbruch zum Aermelkanal und die Schlacht in Flandern und im Artoir vom 10, 5. - 31, 5, 40.

29 Ferdinand Schael was born in Freiburg im Breisgau on 7 February 1889. He entered the 22nd Dragoon Regiment in 1908 and received his commission in 1909. After World War I he remained in the Reichsheer. Between '34 and '39 Schael commanded the 16th Cavalry Regiment and the 1st Panzer Brigade. In August 1939 he assumed command of the 10th Panzer Division. Other commands during World War II were: 34th Corps, 1 September '41; 41st Panzer Corps, 13 September '41. From September 1943 until July 1944 Schael was the Commander of Wehrkreis Bohemia and Moravia and plenipotentiary with the Reichsprotector in Bohemia and

Moravia. Keilig, op cit., p. 286.

29XIX. A.K. KTB, 10. 5. 40; also, IR "GD" had the specific mission of protecting the corps' left flank from advancing Allied forces.

30For 11 May XIXth Panzer Corps received operational control of: 49th Artillery Regiment, 2nd Battalion/69th Artillery Regiment (10 cm), the 511th Engineer Regiment, and the 41st Engineer Battalion with two type B bridges. XXII.A.K. (Gruppe von Kleist) Abt la/op Korps Gef. Std., den 10.5.40., Betr: Gruppenbefehl Nr. 1 fuer den 11.5.40.

31XIX.A.K. KTB, 10.5.40; and Dach, opcit., p. 64.

32Gruppenbefehl., Der Kommandierende General der Gruppe von Kleist, Einsatzort, den 11. Mai 1940.

33 Dach, op cit., p. 65; Anlage B, Generalkommando XXII. A. K. (Gruppe von Kleist) 10. 8. 1940., Yorlaeufige Erfahrungen mit großen mot. Yerbaendan.

34XIX. A. K. KTB, 10. 5. 40; Tagesmeldung des XIX. A. K., 10. 5. 40. signed by Colonel Nehring; and Gruppenbefehl Nr. 1 fuer den 11. 5. 40.

35XIX. A. K. KTB, 10. 5. 40.

36XIX. A. K. KTB, 11.5.40.

37Liss, *op cit.*, p. 150.

38 Message from Panzer Group von Kleist at 0745, 11 May 1940 to Army Group A, signed by the operations officer.

39XIX. A. K. KTB, 11. 5. 40.

40Strauss, op cit, p. 46; and XIX. A. K. KTB, 11. 5. 40.

41 Dech, op cit., Nr. 2, p. 68; XIX. A. K. KTB, 11. 5. 40; and Schmidt, op cit., p. 32.

42Karl Keltsch was born in Troestau on 7 May 1892. He entered the army in 1912 and joined the 7th Bavarian Infantry Regiment in 1914. After World War I Keltsch remained in the Reichsheer. In January 1938 he assumed command of the 2nd Panzer Regiment. During World War II he continued to command the 2nd Panzer Regiment in Poland, and in February 1940 assumed command of the 1st Panzer Brigade. In November of the same year Keltsch commanded the 18th Panzer Brigade. Other commands included: Commander, 6th Transportation Depot of 6th Army from November 1941 to July 1942, Commander, 12th Transportation Depot in April 1943, Commander, Central Transportation West from January to November 1944, and Commander, Transportation Depot, 3rd Military Administrative Area Headquarters. Keilig, op cit., p. 160.

43Stoves, *Die 1. Panzer Division*, p. 84-85; Dach, *op cit.*, p. 68; Schmidt, *op cit.*, p. 32; and XIX. A. K. KTB, 11. 5. 40.

44Stoves, op cit., p. 85; Dech, op cit., p. 68; XIX. A. K. KTB, 11. 5. 40; Schmidt, op cit., p. 32; and Liss, op cit., p. 148-149.

45Stoves, *op cit.*, p. 85; and Schmidt, *op cit.*, p. 32.

46Dach, op cit., Nr. 2, p. 68; Stoves, op cit., p. 85; and XIX. A. K. KTB, 11. 5. 40.

47XIX. A. K. KTB, 11. 5. 40.

48| bid.

49bid.

50lbid, entry at 2100 hours.

51XIX. A. K. KTB, 11.5.40; XXII. A. K. (Gruppe von Kleist) KTB (Abschrift) 10.5. bis 11. 7. 40., entry for 11.5.40.

52XIX. A. K. KTB, 11. 5. 40., Luftlage.

<sup>53</sup>Liss, *op cit.,* p. 153.

54XIX. A. K. KTB, 11. 5. 40., Abschlußlage am Abend.

55XIX. A. K. KTB, 11. 5. 40., Zusammenfassung.

56The distance between the two headquarters probably caused the delay. XIXth Panzer Corps' Tactical Command Post was located at Neufchateau, whereas Panzer Group von Kleist located its Command Post at Erpeldingen. XIX. A. K. KTB 11. 5. 40; Generalkommando XIX. A. K. Abt is Korps Gef. Stand Neufchateau, den 11. 5. 40., Betr: Korpsbefehl Nr. 2 fuer den 12. 5. 40; and Gruppe von Kleist Abt la/op K. Gef. Std., den 11. 5. 40., Erpeldingen. 2100 Uhr., Betr: Gruppenbefehl Nr. 2 fuer den 12. 5. 40.

57XIX. A. K. KTB, 12. 5. 40.

58XIX. A. K. KTB 12. 5. 40., entry at 0900 hours and Abschlußlage am Abend (Feind); Dach, op cit., Nr. 2, p. 69; and Strauss, op cit., p. 46.

<sup>59</sup>XIX. A. K. KTB, 12. 5. 40; Dach, *op cit.*, p. 69; and Stoves, *op cit.*, p. 86.

60 Dach, op cit., p. 69; and Stoves, op cit., p. 86.

61 Dech, op cit., p. 69; Stoves, op cit., p. 86; and XIX.A. K. KTB, 12.5.40.

62Dech, op cit., p. 69; and XIX. A. K. KTB, 12.5.40.

63Schmidt, op cit., pp. 32-33.

64XIX. A. K. KTB, 12, 5, 40.

65Heinz Guderian, *Panzer Leader*, pp. 78-79; XIX. A. K. KTB, 12. 5. 40; and Generalkommando XIX. A. K. Abt. la Korps Ge. Stand, den 12. 5. 40., 17.50 Uhr, Betr: Yorbefehl fuer Angriff ueber die Mass.

66General von Kleist's refusal of Guderian's concept of the Luftwaffe's employment, and to only fly bombing missions on 12 May does not support the actual events of 13 May 1940. From XIXth Panzer Corps' war diary it can be clearly determined that Guderian and you Stutterheim coordinated the Luftwaffe's employment for the Meuse River crossing in early May. In the Panzer Group's war diary one notes that yon Kleist and Sperrie conducted their own coordination on the morning of 12 May. During the actual events on 13 May, the Luftwaffe employed Guderian's technique. Guderian, without knowing this, complained the entire 13th that the air offensive was a failure, until he met with von Stutterheim in the evening. Yon Stutterheim informed him that there was not enough time to make the necessary changes von Kleist and Sperrie had wanted and thus decided on his own to execute the plan he and Guderian coordinated. We can safely assume that you Stutterheim's decision for this course of action resulted as a consequence of pilots and crews being trained for their mission well in advance. Many historians fault Guderian for wanting to postpone the crossings for one day. From both the XIXth Panzer Corps and the Panzer Group von Kleist war diaries it is fairly evident that Guderian only asked for a postponement, because he considered the use of the Luftwaffe and its systematic attack of the French artillery positions as essential. You Kleist's concept concerned him that there would not be enough artillery available to support the crossings, thus a postponement would have provided the necessary time to deploy all the artillery assets forward. Guderian, op cit., p. 79; XIX. A. K. KTB, 12.5.40. and 13.5.40; and XXII. A. K. (Gruppe von Kleist) KTB, 12.5.40. and 13.5. 40.

57The Panzer Group in its Operations Order Nr. 2, issued on 11 May 1940, paragrayn three missions to corps, specifically directed XIXth Panzer Corps to "use 12 May to make preparations for the planned Meuse River crossing on 13 May. The main effort must be west of the Ardennes Canal". Gruppe v. Kleist Abt. Ia/op K. Gef. Std., den 11. 5. 40., Erpeldingen. 21,00 Uhr. Betr: Gruppenbefehl Nr. 2 fuer den 12. 5. 1940.

68Guderian, op cit., p. 79.

69XXII. A. K. (Gruppe von Kleist) KTB, 12.5.40; Heeresgruppe A, Arbeitsgebiet Qu.I., (Abendmeldung) Zeitabschnitt 12.5.40.

70The French army was convinced that the German Army would not attack without first bringing forward all artillery assets, ammunition, and bridging equipment. They anticipated a two to three day time period which could be used for their preparation along the Meuse River. The French High Command, however, did take some precautionary measures by transporting the 1st Armored Division towards Charleroi. The 14th Infantry Division moved to Novion-Porcier, and

two additional artillery regiments were added to 10th Corps, defending west of Segan. The 71st Infantry Division also hastily deployed into the defensive sector. The 55th Infantry Division, taken out of the front early on 12 May, occupied the west bank of the Meuse, and took the brunt of the attack on the following day. They were disorganized throughout the night of 12 to 13 May, and planned to use the 13th to get their defensive positions in order. During the night, however, it became apparent to some French commanders that the Germans would not wait for the attack. All vehicle columns moving toward Sedan were using full headlights without regard to scurity. Dach, op cit., Nr. 5, p. 48; also, for a detailed study of the French Army's actions during the battle of France, read Alistair Horne's "To Lose a Battle, France 1940"; Liss, op cit., pp. 156-159; XIX. A. K. KTB 12. 5. 40; Generalkommando XIX. A. K. Abteilung la K. Gf. St. Bellevaux 13. 5. 40., 8,15 Uhr; and Gruppe v. Kleist Abt. la/op. Gruppen-Gef. Std. Ebly, den 12. 5. 40., 23,30 Uhr.

71The war game referred to was "War Game Koblenz" conducted along the Moselle River. Although the basic plan remained the same, changes, based on the meeting conducted at the Panzer Group's Cammand Post on the afternoon of 12 May, had to be incorporated. That explains why the order was not issued until D815 hours on 13 May 1940. XIX. A. K. KTB 12. 5. 40; Generalkommando XIX. A. K. Abteilung is K. Gf. St. Bellevaux 13. 5. 40., 8,15 Uhr; and Gruppe v. Kleist Abt. Is/op. Gruppen-Gef. Std. Ebly, den 12. 5. 40., 23,30 Uhr.

#### CHAPTER FIYE

#### THE RIVER CROSSING AND THE BREAKOUT

## "Joyriding in cances on the Meuse is forbidden"

### General Heinz Guderian, April 1940

XIXth Penzer Corps' advance to the Meuse River was a remarkable achievement. Halders' calculated risk paid off and the enemy's defense consisted of a mere delaying action, resulting in minimal losses in both personnel and equipment. The most difficult task, however, that of conducting a river crossing into the enemy's jaws still lay shead. The Army General Staff spent many hours during the previous winter and spring, determining the best course of action. Guderian convinced his superiors and the Army General Staff that crossing the Meuse at Sedan would open the door to the Atlantic coast in the shortest time and most effective manner. General von Kleist agreed with this concept, however, injected an even riskier proposition than the Ardennes breakthrough. You Kleist, not willing to forfeit the initiative by waiting for 12th and 16th Armies' infantry, decided instead to conduct the river crossing with dismounted infantry from the march. The river crossings had been rehearsed in detail on the Moselle River only eight weeks earlier, and Guderian's chief of staff, Colonel Nehring, spent most of the night of 12 to 13 May updating the war game's operations order, which he issued at 0815 hours on the 13th. The actions of XIXth Penzer Corps over the next two days would be remarkable achievements in modern military history and ultimately decide the outcome of the Battle of France.

# Monday, 13 May 1940

Throughout the right of 12 to 13 May Guderian coordinated with his chief of staff, artillery

commander, and Luftwaffe liaison officer to incorporate the changes made by the Panzer Group. Because of the traffic snarls Guderian worried about all the artillery getting forward on time. A second issue that Guderian discussed with Nehring was the Panzer Group's concept of the bridgehead's size. Panzer Group von Kleist ordered XIXth Panzer Corps to cross the Meuse between Flize and Sedan, and to establish a bridgehead along the line Boutancourt-Sapogne-Chehery-Noyers Pont Maugis.<sup>2</sup> Since in the German system the maximum amount of freedom was given to subordinates to execute their mission, Guderian maneuvered his corps a few kilometers south of Flize and planned to push further south to the heights of Stonne before turning his corps wastward. Although Guderian failed to execute his commanders intent, the resulting changes were minimal and did not effect the Meuse River crossing operation.<sup>3</sup>

The French continued to impede German movements north of the Meuse River. As on the previous day, French artillery forward observers engaged anything that moved. This proved extremely costly for reconnaissance elements of the 37th Engineer Battalian about dawn. As a result many young engineers were killed along the river banks attempting to confirm previously selected crossing sites. First and 10th Panzer Divisions worked throughout the night, clearing the remainder of the French forces from the north bank, and by 0800 hours had all elements in assault positions in the woodlines contouring the river from St. Menges to Balan. Every division looked across several hundred meters of open flat grass areas, where every move outside the cover of the woods was observed and taken under fire. Second Panzer Division advanced much slower and was still located in the forest of Sugny at 0815 hours, about five kilometers from its crossing site at Donchery 4

The Luftwaffe initiated its attack at 1000 hours instead of the previously coordinated 0800 hours, bombing prepared enemy positions, artillery batteries, and unit assembly areas. During the course of the morning a Stuke squadron mistakenly attacked the assault positions of the 1st

Motorcycle Battalion, but only caused minimal injuries and damage. The battalion commander, Major Wend von Wietersheim<sup>5</sup>, promptly contacted the 1st Panzer Division's headquarters and told the operations officer, Lieutenant-Colonel Walther Wenck<sup>6</sup>, that he could do without this type of support from the Luftwaffe. Wenck immediately contacted XIXth Panzer Corps to ensure that there would no be a repeat.<sup>7</sup>

General Guderian spent the entire morning visiting the three division commanders, conducting face to face coordination and explaining his aims for the upcoming operation. At Sugny, he informed Major-General Veiel that the attack would commence as scheduled, and that he was to have all available combat elements at the river on time. Traffic conditions were especially bed on the morning of 13 May, since all artillery assets, engineers, and Flak units congested the limited road space between the Semois and the Meuse. The situation deteriorated when the corps' military police company commander was killed during one of the bombing raids on Sedan. At 1030, the \*\*Aebe/werrer\* regiment's commander reported that he would be unable to bring his units forward in time to support the river crossing. As the corps attempted to position its combat support elements, the Luftwaffe continued the air raids. The French, however, began firing some long range artillery in the rear of Guderian's assault positions, which rather surprised the Germans.

General Wilhelm Berlin, the corps' artillery commander (ARKO 101), spent a hair raising morning, concentrating the artillery units around Sedan. The 73rd Artillery Regiment finally occupied its firing positions about noon, and the rest of the artillery units managed to somehow occupy their's by 1530 hours. This accomplishment reflected the tremendous leadership capabilities of General Berlin. The Luftwaffe's effort began to increase after 1400 hours, culminating at 1500 hours with a massed raid of 900 to 1000 Stuka/fighter aircraft for the next hour. At 1530 hours, the artillery joined the Luftwaffe, commencing the combined one-half hour

concentrated fire support preparation prior to the assault. (see Appendix K, Meuse River Planning Information) Infantry and engineers used this *Guetterdaemmerung* as cover while moving boats and equipment to the river's edge. As the last bombs and artillery shells struck the enemy's side of the river, elements of XIXth Panzer Corps started their historic assault.9

The Luftwaffe demonstrated the effectiveness of a coordinated air bombardment, virtually driving the 55th French Infantry Division into panic. Intelligence officers within the French division received instructions on how to use machine guns in the anti-aircraft role only on the morning of 13 May. At 0730 hours, the French 10th Corps commander telephoned the 55th Infantry Division commander and assured him that a German attack was unlikely over the next four to six days, since their artillery and ammunition had not yet been brought forward. 10

### First Panzer Division

The soldiers of the 1st Panzer Division, main effort of Panzer Group von Kleist, observed the devestating Luftwaffe attack the entire day. Nevertheless the situation was chaotic when they began their river crossing, with French bunkers spitting intense fire at them from the far side of the river. The soldiers had actually spent a fairly calm day, resting as much as possible. The signal battalton finished laying all telephone lines by 0400 hours, placing division headquarters in contact with the infantry brigade, Panzer brigade, and ARKO 101.11 The engineers produced only scant information on the crossing sites as a result of their costly reconnaissance efforts early in the morning. Although the crossing sites had previously been selected from aerial photography, commanders wanted to confirm the actual locations. Any attempt at further reconnaissance during daylight became impossible. Thus, at 1500 hours, under the protection of the massive air attack and the subsequent artillery preparation, infantry and engineers carried

their boats to the water's edge. The division planned its assault as follows: 1st Motorcycle Battalion assaulted the Iges loop, the 1st Infantry Regiment assaulted north of Gaullier towards Frencis, and Infantry Regiment "Grossdeutschland" south of Gaullier (inclusive) on Torcy. Earlier in the morning company 1st Sergeants instructed the mechanized infantry soldiers to prepare and carry assault packs, since they would be without their vehicles for the next day (see Map seven through nine, pp. 154-156).12

The 1st Motorcycle Battalion began its river crossing, at 1600 hours, southwest of St. Manges. The Meuse was shallow at this location and presented the motorcyclists with little difficulty. Clearing of the iges loop proceeded rapidly and by 1800 hours the battalion secured the French positions on Mont D'iges. The battalion continued its advance reaching and securing Glaire de Vilette at 1900 hours. The 1st Company's commander was killed and Major von Wietersheim was wounded during the attack on Glaire de Yilette. Bunkers south of the Canal de l'Est were cleared by elements of 1st Infantry Regiment, so the motorcyclists could cross the canal.13

Lieutenant-Colonel Balck, commander of the 1st Infantry Regiment, accompanied his soldiers to the river at 1500 hours, and became the focus of a classical breakdown in communication. The regiment's transportation column delivered the pneumatic boats for the river crossing, but no operators, since someone forgot to inform the engineers where to go. In the meantime "Grossdeutschland's" and neer battalion commander arrived at the scene and Balck directed him to operate the boats. The engineer commander reminded Balck that his soldiers were assault engineers and not boat operators. Balck had trained his soldiers in the use of pneumatic boats, thus he decided to conduct the assault crossing without the help of the engineers. He crossed the river with the first wave and within minutes breached the initial bunker line along the Meuse. The advance slow) and pair to in the passe momentum, since the French in Balck's sector only rendered isolated resistance. At 1730 hours lead elements of the 2nd and 3rd Battalions reached the

Donchery-Sedan rail line, about one and one-half kilometers southwest of the crossing site. General Guderian, whose command post moved to La Chapelle at noon, dreve to elevation 266, southwest of Givonne at 1600 hours to observe the river crossings. From this location he could see the entire battlefield and observe the progress of his corps. His patience, however, was short lived and by 1800 hours, Guderian proceeded to the river, crossed, and joined the 1st Infantry Regiment in the forward lines.14

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Balck knew the next defensive line had to be breached before his soldiers could be given a well deserved rest. The French main defense lay south of the Sedan-Bellevue road. The 2nd and 3rd Battalions assaulted at 1830 hours and breached it by 2030 hours, opening a gap in the French defensive system between Frenois and Wadelincourt. Balck kept pressing the attack, although his battalion commanders recommended against it. He realized the surprise the regiment achieved, and wanted to carry the bridgehead as far forward as possible. Since French resistance at this point was almost non existant, Balck did not want to pay a high price on the 14th, for something available so cheap on the 13th. By midnight, Balck had led elements of his regiment to just south of Cheveuges and the southern edge of the Bois de la Marfee. He sent two companies of 2nd Battalion on sheed to Chehery to secure the high ground west of the village, in essence cutting off the French artillery positions in the southern confines of the Bois de la Marfee.

Infantry Regiment "Grossdeutschland" was attached to 1st Panzer Division on 13 May for the river crossing. It arrived late in the division's sector, not reaching Gaulier until 1430 hours. The main effort of the regiment rested with the 2nd Battalian. The battalian commander decided to use a factory adjacent to the river as his command post, and established machine gun positions on the upper floors of the building to engage three French bunkers on the opposite river bank. As scheduled, the first assault squad carried its boat to the water's edge at 1600 hours, but was immediately engaged by the French from the bunker positions. The entire squad was moved down

and killed, and the boat destroyed. The second squed met the same fate. When a 3.7 cm half track mounted Flek gun arrived at the scene, the battalion commander ordered its crew to engage the bunkers. The gun crew expended all its ammunition, engaging the bunkers, but the third squad met the same fate as the first two. Only the direct fire support of two 7.5 cm armored assault guns, Sturmgeschuetz, and a Stuka attack finally subdued the French in the bunkers. At 1650 hours, the 2nd Battalion made its first successful crossing managing to establish a small bridgehead by 1730 hours. The commander immediately sent the rest of the battalion across the river and began the advance on Torcy. At 2000 hours, the regiment progressed to the northeastern edge of the Bois de la Marfee. Engineers ferried the entire infantry brigade and infantry Regiment "Grossdeutschland" across the Meuse by midnight. The 1st Panzer Division's execution of the river crossing proved successful, reflecting the hard training practiced weeks before along the Moselle. (see Map seven through nine, pp. 154-156)16

### Tenth Panzer Division

The other two Panzer divisions did not have the same good fortune. Tenth Panzer Division, faced with incredible edds, finally managed to get some weak elements across the river by 1800 hours. Flat, open terrain leading to the water's edge, sighted by enemy forward observers and machine gunners, nestled in bunkers under the railroad embankment three hundred meters from the river, enabled the French to saturate the assault forces with devastatingly accurate fires. German bombers and artillery missed those fortifications throughout the day's bombardment. The division also received artillery fire from heavy guns positioned near Remilly. The lack of the division's heavy artillery battalion subordinated to the 1st Panzer Division severly hampered its ability to properly support its river crossing. Crossing attempts at Bazeilles ended in complete

A company size force at about 1930 hours finally made it across at the division's second crossing point at Wadelincourt. One squad spent several hours clearing out bunkers along the water line, taking pressure off the crossing sites. As soon as the French defensive fire began to slacken, the division sent two battalions of infantry across. Like the earlier assaults at Bazellies casualties were extremely high, but the assault succeeded. The division continued to receive heavy flanking artillery fire from French batteries located at Novers-Pont Maugis and Remilly. The division commander refused the aid of a Stuka attack against the batteries, in light of his destroyed bridging assets, rendering him incapable of constructing a bridge until new equipment was brought forward. Later, during the night, the division began constructing a bridge just south of Sedan, while the two infantry battalions advanced to Nover and Pont-Maugis. Thus by midnight the division established a bridgehead running from Wadelincourt to 500 meters east of the Bois de la Marfee-Novers-Pont-Maugis. The 10th Panzer Division paid a heavy price for such a modest

# Second Panzer Division

bridgehead (see Map seven through nine, pp. 156-158).18

The 2nd Panzer Division suffered a much worse fate than the 10th. Similar problems with open terrain along the approaches to the river plagued General Veiel's infantrymen. Only a few small elements managed to get to the south bank of the Meuse, west of Donchery. Because of extremely heavy losses, and the unlikelyhood of constructing a bridge near Donchery under the present conditions, Guderian redirected elements of the 2nd Panzer Division, at 2100 hours, to the loss loop hoping that a strike in the enemy's flank would be more successful. 19

The ability to bridge the Meuse rapidly would prove as important as securing a bridgehead.

Engineers began constructing an assault bridge at Gaulier at 1800 hours. Initially, however, the 37th Engineer Battalion, reinforced by the 505th Engineer Battalion constructed ferries, beginning operations with the first one at 1815 hours. These ferries transported the initial armored cars and anti-tank guns to the other side, while pneumatic boats carried five battalions of infantry across the river. Actual construction of the bridge, once proper reconnaissance of the sites were completed, began at 2015 hours. The engineers opened the bridge for traffic at 0200 hours. (see Appendix G, Engineer Operations)

The engineers had only 70 meters of bridging equipment, since a previously constructed bridge over the Semois, the day prior, could not be taken down. The location selected by the engineers was just under 70 meters. If the French airforce or artillery had taken out only one section, bridge traffic would have been halted for an extended period of time. The 37th Engineer Battalion would have had to borrow equipment from another unit,20

While General Guderian accompanied the 1st Infantry Regiment, Nehring began planning operations for 14 May. Throughout the day visitors arrived at the corps' headquarters for update briefings. Two of those distinguished guests were Generals von Kleist and von Stutterheim. To von Kleist, Nehring impressed the importance of expanding the bridgehead to Stonne, and with von Stutterheim he coordinated the sir effort. Nehring and the Luttwaffe commander agreed on the area south of Attigny-Steny as a free fire zone. Among other things, the chief of staff assessed the days' operations. He attributed the failures of 2nd and 10th Panzer Divisions to a lack of fire support. At 2130 Nehring directed lat Panzer Division to release the two heavy artillery battalians back to 2nd and 10th Panzer Divisions. The artillery's measing in 1st Panzer Division's sector had paid off, but the two flanking divisions now required heavier fire support to catch up with 1st Panzer Division. Nehring also recognized the vulnerability of the two bridges at Gaulier and south of Sedan. Since the French had attempted several times already to destroy the

bridges with their air force, the corps' chief of staff ordered all available Flak guns concentrated around the crossing sites. German Flak crews managed to drive off the attacking Allied aircraft on 13 May, however, the intelligence officer expected heavier air activity on the 14th. The significance of those bridges can not be overemphasized, for without them the Panzer brigades would not have reached the infantry on the following morning. As the corps' center of gravity they had to be protected at all cost, since the bridges not only carried the tanks, but also the vitally important supplies required to sustain the forces.21

The initial advance across the river produced little usable intelligence. As predicted, the French fought hard, but the Luftwaffe generated such a fear that many soldiers were found hiding in corners of bunkers. Intelligence officers, after interrogating French soldiers and officers, concluded that the enemy caught in 1st Panzer Division's sector was completely demoralized and no longer willing to fight. Air recommaissance, at 1615 hours, reported enemy tank formations moving north toward Bulson, possibly indicating a French armored or motorized counterattack. No such large formations, however, had yet been reported within the vicinity of the bridgehead. The enemy was expected to continue his stubborn resistance, although a major counter offensive by the French was not anticipated since a sizeable movement of reserves had not been initiated.<sup>22</sup>

At 2230 hours Nehring issued the operations order for 14 May, reflecting the estimate of the Intelligence officer that French armored forces would reach the corps' forward positions sometime in the morning. The corps' plan called for 1st Panzer Division to continue its advance toward Bulson, then turning west over Vendresse-Le Chesne toward Boutancourt with its left flank paralleling the Aisne River to Rethel. The 2nd Panzer Division would also turn west and advance toward Poix Turon, then head southwest toward Rethel. Protection of the corps' left flank fell to the 10th Panzer Division, which would advance south directly east of Bulson toward Stonne.23

By midnight the XIXth Panzer Corps had punched a salient six kilometers deep and five kilometers wide, with elements as far south as Chehery (see Piap seven through nine, pp. 154-156). Guderian, concerned with the immanent French counter attack, planned to use the rest of the night to strengthen the bridgehead. He therefore directed the infantry to prepare fighting positions along the forward edge of the bridgehead and ordered the movement of all available Panzer and anti-tank units across the Gaulier bridge as soon as possible. His intentions for 14 May included widening and protecting the bridgehead, exploiting the success of the river crossing by securing crossing sites over the Ardennes Canal, and conducting a breakout toward Rethel. Guderian's plans for 13 May had been realized, but the battle was not yet won. The corps had taken heavy casualties in its infantry ranks, while the Panzer brigades were still unscathed. The French Army remained a force to be reckoned with, especially its armored forces.<sup>24</sup>

# The Effects of the Rolling Bombardment

During the "Phony War", German air reconnaissance systematically photograghed the entire Sedan-Mezieres sector. This serial photography aided 3rd Air Fleet's pilots in locating their targets. Command posts, forward observer positions, bunkers, machine gun nests, and battery firing positions were caught in the hail of the Luftwaffe's bombs. The Luftwaffe flew unimpeded, and destroyed several villages around Sedan. This rolling air attack had a tremendously demoralizing effect on the French. The 55th Infantry Division's telephone lines were destroyed within 30 minutes, leaving only a limited number of radios and messangers to gransmit information. The continued bombing and the Stuka strens virtually paralyzed the French. Although later investigations revealed that less personnel were killed and equipment destroyed than originally anticipated, the demoralizing effect of the Stukas took its toll, severing the nerves

of the defenders in 1st Panzer Division's sector, resulting in a panic by the French toward evening. The absence of any French anti aircraft guns or fighter aircraft certainly added to the psychological impact. The remnants of the 55th Infantry Division, the entire 71st Infantry Division, the majority of five artillery regiments, and rear services began to rout south on the Bulson-Maisoncelles and the Bulson-Chemery roads. Staffs, medical services, and anyone that could move joined this rout. Interestingly enough, many of these soldiers never sighted a single German other than the Luftwaffe airplanes unloading their ordnance. French general staff officers were out to restore order, however, many of these became caught in the chaos. Elements of this panic stricken mass fled as far as Reims, 80 kilometers behind the front before they could be stopped.25

# Tuesday, 14 May 1940

On the fifth day of the offensive, XIXth Panzer Corps' soldiers fought several major actions resulting in decisive consequences for both sides. For the German Army it resulted in its greatest victory since the Battle of Sedan some 70 years earlier, and for the French it marked the beginning of the end. The corps enlarged the bridgehead south toward Stonne and crossed the Ardennes Canal in the west, while the French attempted throughout the day to crush Guderian's bridgehead. On this sunny, hot and dry Tuesday, both sides attacked and counterattacked in rapid succession, but Guderian maintained a clear vision of the General Staffs' Campaign Plan. Throughout the night German anti aircraft units came forward to defend those vital bridges, and at dawn the 102nd Flak Regiment (reinforced) assembled 81 20mm, 54 3.7 cm, and 36 88mm Flax guns to protect them. Above Sedan, Allied aircraft struggled the entire day to destroy the bridges. By nightfall they had suffered heavy losses and were incapable of eliminating them. The

XIXth Panzer Corps' life line into the bridgehead remained open.26

The corps systematically squeezed as many armored vehicles and artillery as possible across the bridge during the night. By early evening, nearly 300 armored vehicles of all types and a battalion of 105mm howitzers passed over the Gaulier bridge, since engineers cleared it for vehicular traffic at 0200 hours. During the night, the 2nd Panzer Division managed to get one battalion of infantry across the river, but still was not able to construct a bridge. The division continued in this precarious situation until late in the day. During the night, Guderian directed 2nd Panzer Division to send one Panzer regiment with some infantry over the Gaulier bridge, to attempt rolling up the enemy's flank along the southern bank of the Meuse. Besides its difficulties at the crossing site, the 2nd Panzer Division also experienced tremendous traffic problems, still having units stratched beyond the Semois River. The assault bridge located at Vresse, damaged by enemy aircraft several times during the past day and a half, trapped units north of the Semois. In the wake of these continued air attacks, engineers struggled to repair the bridge in order to keep traffic flowing.27

Guderian, as usual, departed his command post at 0630 hours and drove directly to the lead elements of 1st Penzer Division south of the Bois de la Marfee. Concomitantly, air reconnaissance reported enemy motorized and tank columns heading toward 1st Penzer Division on the Rethel-Le Chesne-Chemery road. The French thus confirmed the intelligence estimate of the previous night. Guderian personally contacted his operations officer at 0850 hours, reporting enemy armor units heading towards Chemery and Bulson from the south, and directed the immediate dispatch of all available tanks and anti-tank units in that direction. Guderian recognized that a successful French counterattack meant the Allies could win the campaign.28

## Expanding the Bridgehead

First Panzer Division demonstrated its tactical ability as a well trained, superbly led fighting force on 14 May 1940. The division, subjected to the brunt of the French counterattacks, withstood each crisis. General Kirchner, upon receipt of the 0630 hours air reconnaissance intelligence, ordered 2nd Panzer Regiment straight to Buison. The regiment arrived there at 0700 hours without infantry support, but decided to secure the village anyway. The French attacked shortly thereafter, and the violent engagement lasted until about 1000 hours, when they retreated to Chemery. The 2nd Panzer Regiment lost several armored vehicles to French tankers during this engagement. More importantly, although German tank armaments were inferior to the French, superior tactics and up-to-date signal equipment gave the Germans a clear advantage. Second Panzer Regiment outmaneuvered the French, struck in their flank, and forced them to retreat. The Panzer regiment wasted no time and gave chase to Chemery, where it became tangled with French infantry. Without their own infantry, the German tankers found it difficult combatting infantry, but a company of assault engineers from the 43rd Assualt Engineer Battalion arrived at 1115 hours and cleared the village. The French counterattacked and nearly regained Chemery. When the situation became desperate for the Germans, the engineers becam to use weapons more suited to their trade in an effort to repell the French tanks. Employing shaped charges, flame throwers, and smoke grenades, the engineers destroyed 10 tanks in the streets of the village. At about 1215 hours the French finally had enough and retreated from the village leaving it under German control. During the fighting, the engineer company commander was killed. At 1230 hours elements of the anti tank company of "Grossdeutschland" arrived with nine 5 cm antiliank guns, to reinforce the units at Chemery.29

Lieutenant-Colonel Balck's 1st Infantry Regiment also held off a French counterattack in his sector near Chehery. Without any heavy weapons, Balck watched French tanks supported by low

flying aircraft advance to within 30 meters of his position, until two 5 cm anti tank guns pulled up. One of the guns took a direct hit while getting into action, the other one was luckier and engaged enemy tanks until the latter withdrew. Several of the low flying aircraft fell prey to alert German machine gunners who had set up their MG 34s on the anti aicraft tripods. While the battle was in progress a lost field kitchen drove into Balck's position, providing the infantrymen with some badly needed humon. When the dust of the first engagements settled, a vast number of French tanks littered the battlefields of Bulson, Chemery, and Chehery. General Kirchner, recognizing the significance of capturing the Ardennes Canal bridges intact, ordered the Panzer brigade to secure the ones at Malmy and Omicourt immdediately after the French attack. Colonel Keltsch directed one company of tanks to each bridge. They secured both bridges at 1230 hours and established small bridgeheads at each site. Capturing these bridges in tact was extremely critical, because the corps began to experience a shortage of bridging assets. It is questionable whether the corps had enough bridging equipment left to support another two assault bridges. Then, for the second time in two days, the Luftwaffe attacked a target with German troops on it. Stukes accidentally bombed Chemery at 1300 hours, causing a number of casualties, including the commander of the 1st Panzer Brigade.30

In the meantine, elements of the 2nd Panzer Division advanced to the Baar Stream near Villers-sur-Baar, however, French defenders repulsed the first attempt to take the village. French armor and infantry also attempted a counter attack at Malmy, but the German tankers held. At 1430, the commander at the Malmy bridgehead radioed 1st Panzer Division's headquarters and reported that unless infantry reinforcements arrived soon, he would not be able to maintain his position much longer. The division operations officer dispatched the 1st Motorcycle Battalion and 1st Battalion/73rd Field Artillery Regiment to support the Malmy bridgehead. As the battles raged on throughout the morning and early afternoon, the ammunition columns rearmed the

tankers twice in their forward positions. For the first time since 10 May, ammunition expenditure reached high rates, but French resistance began to soften later in the evening.31

Tenth Penzer Division, using the cover of night of the 13th employed pneumatic boat ferries and transported 40 anti tank guns into the bridgehead near Wadelincourt. At daybreak the infantry began to advance south, paralleling the Meuse. They reached Pont-Maugis, Noyers, Remilly, and Angecourt at noon. Along the edge of the forest near Haraucourt, their advance was checked by French defenders, primarily, because the infantry had no heavy weapons or tanks for support. Since the assault bridge south of Sedan was not completed until 0645 hours, the infantry had to wait until early afternoon for armor support to continue the advance. The infantry's armored half tracks also moved forward, enabling the advance to pick up momentum. Tenth Panzer Division advanced on two axes, one on the road Angecourt-Haraucourt and the Meuse River toward Mouzon-Yoncq. By 1600 hours the division broke through the French defenses at Haraucourt and captured 40 artillery pieces. The division continued south seizing the heights southwest of Raucourt at Flabe at 1600 hours, finally stopping after reaching the edge of the Bois des Mont Dieu forest at midnight.

While 10th Panzer Division conducted its advance south toward Le Besace-Flabe, "Grossdeutschland" paralleled the division, seizing Maisoncell-et-Yillers around 1830 hours. By midnight "Grossdeutschland" linked with 10th Panzer's right flank south of Artaise-le Yivers north of the Bois des Mont Dieu. The 43rd assault engineers, the 4th Armored Reconnaissance Battalion, and the 37th Anti Tank Battalion supported "Grossdeutschland's" right flank throughout the day, warding off several attempts by the French to penetrate the bridgehead south and southwest of Chemery. Chemery was a vital piece of terrain for XIXth Panzer Corps, because the east-west road to the Malmy bridge passed through the village. French forces again tried at 1700

and 1900 hours to break through at Chemery, but the Germans held firm. The actions of 10th Panzer Division, "Grossdeutschland", and the combat support elements secured the corps' left flank (see Map tan, p. 157).34

### The Breakout

General Guderian, forcing himself not to lose sight of the ultimate objective, became concerned in the early afternoon that his forces, although expanding and protecting the bridgehead, were being diverted from the corps'main goal. To the XIXth Panzer Corps commander main goal meant reaching the English Channel. From 1330 to 1400 hours, while at the 1st Panzer Division's command post, Guderian discussed his proposed course of action with General Kirchner and Lieutenant-Colonel Wenck. Guderian wanted to hear their opinion on his very risky proposition. He expected 1st Panzer Division to turn west without delay and, using the crossing sites at Omicourt and Malmy, advance to Signy-Omont. Infantry Regiment "Grossdeutschland", reinforced with two heavy artillery battalions, would remain in the bridgehead and secure the division's left flank by advancing to Stonne. Second Panzer Division would continue its attempt to secure a crossing at Doncnery and, once established, advance toward Flize-riannogne. Fenth Panzer Division would continue south to Flabe-Mouzon, and thus protect the corps' left flank.35

The risks of this concept of operations were, 1st Panzer Division initiating the right turn immediately while its flanks were not completely secured. Secondly, some of the raging battles had yet to be settled. Guderian, however, felt that in order to maintain the initiative, the corps had to take advantage of the enemy's confusion and surprise him again by striking while the iron was still hot. When Guderian looked at Wenck for a reply, the operations officer simply stated, "The General taught us to hit with a fist and not to feel around with our fingers." Guderian,

confident in the soldiers and officers of his command, issued the necessary orders at 1400 hours from his command vehicle. His decision, truly operational in nature, was indicative of Guderian's type of leadership. The tremendous risk he undertook was bound to have far reaching consequences, regardless of the outcome.37

First Infantry Regiment advanced west over Omicourt and Malmy at 1500 hours, and attacked its first intermediate objective, the key heights north of Vendresse, at 1530 hours. After the 1st Battalion captured the heights and the town, the French counterattacked with a reinforced tank battalion. As the short battle came to an end, at 1730 hours, between 30 and 40 enemy tanks were mired in the swampy low ground west of Vendresse. The 1st Company/1st Panzer Regiment and 4th Company/2nd Panzer Regiment also destroyed several French 35 ton tanks and numerous self propelled anti tank guns. North of Vendresse, the 2nd and 3rd Infantry Battalions advanced toward Signy. Third Battalion seized the town at midnight, thus reaching the objective set by Guder an at 1400 hours. 38

Second Panzin Division's in tune characterists in the afternoon when it finally managed to get the remainder of its infantly regiment across the river near Donchery. With air attacks dwindling in the afternoon, and the assistance of the heavy artillery battalion, the division neutralized a number of bunkers in its crossing sector. Engineers immediately constructed a 16 ton bridge, while simultaneously ferrying other light equipment. In the meantime, one of the Panzer regiments captured another crossing site over the Ardennes Canal at St. Aignon and drove north to link up with the infantry near Pont-a-Baar. Pont-a-Baar was the forth bridge over the Ardennes Canal the corps captured through a coup de main. At 1800 hours the 2nd Panzer Division assembled nearly 100 tanks near Pont-a-Baar, to conduct a coordinated division attack on two axes. One axis advanced over Dom-le-Mesnil to capture Flize, the other over Hannogne to Signy. Supported by artillery and Stukas, the armor heavy force attacked along the Meuse River,

completely surprising the French 3rd Battalion/148th Fortress Regiment. Second Panzer Division struck them in the flank, and rolled up their defenses. The French also experienced a peculiar problem in that their bunkers were all oriented toward the north. Since the Germans attacked from the flank and rear, the bunkers' 2.5 cm anti-tank guns were useless. After reaching Dom-le-Mesnil at 2000 hours, the division continued the advance striking the French 102nd Fortress Division's flank. French resistance crumbled, allowing 2nd Panzer Division to pass through Flize and right on to Boulzicourt. The advance along the southern axis also made excellent progress, linking up with the 1st Panzer Division at Sapogne just after 2100 hours. Thus, at 2400 hours on 14 May, XIXth Panzer Corps stood on a line Boulzicourt-Signy-Omont (see Map eleven, p. 168).39

Guderian suspended all actions for the night, probably because the divisions were nearly out of fuel and ammunition. Fuel resupply was not at a critical stage yet, however, the supply officer for the 2nd Panzer Division complained late in the afternoon that he had no idea where half of his fuel columns were located. Supply and fuel columns were not authorized on tactical march routes, relegating these vital commodities to secondary roads, trying to locate fuel and ammunition distribution points. Guderian returned to his command post early in the evening to work out the next day's operations with his chief of staff. He planned to continue westward to Wasigny-Rethel, leaving 10th Panzer Division, reinforced with "Grossdeutschland", protecting the bridgehead's southern flank until relieved by infantry units from 12th Army. Yon Kleist agreed with Guderian's aims during a 1830 hour radio conversation, but changed his mind at 2230 hours. 40

General von Kleist, concerned about the threat from the south wanted XIXth Panzer Corps to suspend movements westward until the bridgehead could be strengthened by follow on infantry. Guderian, however, immediately opposed his commander and accused him of giving away the German victory to the French. Based on the latest intelligence reports, Guderian considered the

flank threat minimal, and reminded von Kleist of the operational goal. Rather abrasive, Guderian suggested the Panzer Group misused uncommitted divisions by not employing them in the battle. Guderian further proposed the Panzer Group should have those uncommitted divisions following XIXth Panzer Corps, providing more depth and flank security. He felt that by striking deep immediately, Allied counteroffensive plans would be spoiled and thus provide an additional measure of security. After a 30 minute conversation, von Kleist agreed with Guderian and allowed the advance to Wasigny-Rethel. At 2315 hours von Kleist called Nehring to impress upon him OKH's disapproval of the continued advance westward, however, at 0045 hours on 15 May the Panzer Group sent a teletype message confirming the day's objectives.41

The Panzer Group's operations order contained the previously outlined missions, but reflected needed task organization changes. Tenth Panzer Division and Infantry Regiment "Grossdeutschland" would be detached from XIXth Panzer Corps to XIVth Motorized Corps. XIXth Panzer Corps received the 2nd Infantry Division (mot) in return. The new command relationship would not take effect until noon on 15 May, when Guderian would also turn over responsibility of the bridgehead to XIVth Motorized Corps. In the meantime he ordered 10th Panzer Division to advance to the line Andennes Canal-Meuse River south of Villemontry, 42

xixth Panzer Corps engaged five and one-half French divisions throughout May 14. The enemy's counterattacks failed, resulting in the capture of over 3000 prisoners of war, nearly 100 armored vehicles, numerous artillery pieces, and aircraft. Guderian's divisions proved themselves, breaking through the extended Maginot Line and opening the path to the English Channel. What many officers considered impossible, XIXth Panzer Corps achieved in 32 hours. The price was not cheap. Since several units were considerably reduced in strength and many of the leaders were either wounded or dead. The Meuse crossing operation, on the tactical level, was a major victory, however, in the overall concept of Halder's Campaign Plan it would only be

decisive if it resulted in a pursuit to the Channel. Guderian, a true operational thinker, one of a select group of officers with the ability to focus beyond the tactical level during battle, never lost sight of Sedan as strictly a means to the greater end. It was also a doctrinal victory for the German Army. Outnumbered and outgunned at several engagements, the Germans executed their mobile warfare doctrine and outmaneuvered and defeated their enemy. The slow methodical manner in which the French advanced, lacking basic tactical maneuver during the armor engagements, and repeatedly attacking the Germans frontally rather than in the flanks proved fatal. On numerous French counterattacks, German forces spoiled their plans by striking in the flank while they were preparing to attack.43

The remarkable achievements by Guderian's Panzer Divisions have a tendency to cast a shadow on some rather obvious problems in German doctrine. Balck's overextended position on the morning of the 14th could have cost the Germans the battle. Since the Panzer divisions did not normally task organize, with the exception of the advanced guards and forward detachments, the mechanized and tank forces remained pure. Thus Balck's infuntry regiment had to advance without any tank support or heavy artillary. German doctrine called for keeping the Panzer brigade intact, so that it was always available for the decisive blow. Had the French counterattacked an hour earlier, the situation at end of the day may have looked somewhat different. The Germans learned quickly from this lesson and formed *Kampfgruppen* (battle groups) after Sedan, task organizing infantry and armor.44

For the first time since the offensive began XIXth Panzer Corps required a massive resupply effort to sustain its forces in battle. As discussed earlier, ammunition and fuel were brought forward several times during the day. From all indications though, the logistics system functioned properly. On a larger scale, Panzer Group von Kleist requested Army Group A to establish a forward fuel and supply depot at Charleville because the lines of communication were

badly stretched. The Army Group agreed, and designated forces to begin the movement of supplies and fuel trains on 15 May. The Panzer Group also informed Army Group A to raise the ammunition priorities to the same level as fuel, reflecting the increased expenditure rates.<sup>45</sup>

OKHs intelligence experts busily analyzed reconnaissance reports on 14 May in an effort to determine whether the French were repositioning reserve forces, which would indicate a counter offensive. Foreign Armies West reported no significant enemy movements toward Rethel or the bridgehead. This meant that, although resisting fiercely, French forces opposing the bridgehead would not be reinforced. For the fifth day in a row the French failed to pull reserves from the Maginot sector. The intelligence officers did identify a new infantry division, the 53rd, and several independent armored battalions during the tank hattles. What amazed the intelligence analysts at OKH was the apparent paralysis of the French General Staff in not sending large reserves against the Seden bridgehead. Five days passed and the French attempted no major counter offensive. All indications led to the conclusion that the French could not alter the situation on the 15th. A movement of French reserves toward the breakthrough would take several days. Foreign Armies West's original analysis of French reactions and intentions remained unchanged.46

# **Victory in Sight**

The breakthrough operation on 15 May developed in a classic manner and set the stage for the pursuit to the Channel. As a result the bridgehead was enlarged to a depth of 25 kilometers and a width of 50 kilometers. West of the Ardennes Canal, XIXth Panzer Corps operated with 1st and 2nd Panzer Divisions, advancing to Poix-Terron-La Bascule-La Horgne-Bouvellemont before midnight, and to Montcarne by early morning the following day. French resistance, as predicted,

remained flerce, and at La Horgne the Spahi Brigade<sup>47</sup> put up an exceptionally valient struggie hindering the German advance for several hours. The Spahis established a thorough defensive system around La Horgne, depriving Balck's infantry regiment of an easy victory. Several attempts by the 3rd Battalion to roll up the enemy frontal: niled. La Horgne had thick woods bordering it to the north and flat open terrain in the south. Balck ordered the 2nd Battalion to maneuver through the dense forest in an effort to outflank the Spahis. He decided to accompany 2nd Battalion, and while making their way through the jungle like, dense underbrush, they surprised the regimental staff of the 2nd Spahi Regiment. After several minutes of hand to hand combat, the Spahi commender was killed and the remainder of the staff surrendered. Once on the far side of the forest, Balck decided to attack La Horgne again, only this time employing a combined frontal and flank assault. The casualties in this engagement were indicative of the intensity of the battle and Spahis' resolve not to give up easily. Twenty-seven Spahi officers were killed, another seven wounded, and with them died 610 brave soldiers. The Spahi Brigade ceased to exist, and 1st infantry Regiment continued its advance toward Bouvellemont.<sup>48</sup>

The Panzer Brigade advanced south of 1st Infantry Regiment and had been stopped for hours at Chagny, located southeast of Bouvellemont. The defenders there also refused to yield, grinding 1st Panzer Brigade's advance to a standstill. Balck's regiment reached a small hilly area northeast of Bouvellemont as twilight fell upon the battleffeld. First Infantry Regiment's soldiers were completely exhausted and unable to go any further, because the day had been extremely hot and combat fatigue was making the men weary. The soldiers were without food all day, since rations could not be brought forward and what little water they carried was consumed hours ago. To make matters worse, they were nearly out of ammunition. Casualties, although minor at each separate engagement over the past few days, began to add up. Balck knew of the tanker's predicament at Chagny, and recognized the importance of Bouvellemont. If he captured Bouvellemont, the French

at Chagny would be cut off. Realizing what was at stake, Balck gathered his commanders and issued the necessary orders for the attack. For the first time the officers expressed reservation about attacking an objective in light of the soldier's condition, and pleaded for a night's rest. Balck refused to accept their arguements, however, found himself in a serious leadership dilemma since no one moved to implement his orders. Raised in the old tradition, unable to take no for an answer, and realizing that all the orders in the world would not motivate his officers and men to attack, Baick simply stood up and proclaimed that, "If you do not want to, then I will take the village myself"49, and began walking toward Bouvellemont. The French 15th Mechanized Infantry Regiment defended the town and had been engaging the Germans with sporadic machine gun fire. Baick walked no further than 100 meters when the officers and men, realizing the seriousness of their commander's proclamation, jumped up and joined him. The artillery battalion already in position provided fire support. The French fought feroclously, requiring Balck's men to capture the village house by house. Once secured, the defenders were annihilated and eight tanks captured. Lieutenant-Colonel Balck received the Knights Cross for his actions on 15 May 1940. At Chagny, the French probably recognized the hopelessness of their situation, and retreated under the cover of darkness. Their retreat signaled the collapse of the last organized resistance by French forces in the breakout sector. Second Panzer Division captured Poix-Terron and La Bascule earlier in the day, hocing to link up with elements of the XLIst Panzer Corps advancing from Charleville-Mezieres. Throughout the night of 15 to 16 May, both Panzer divisions reorganized, resupplied, and continued the advance which rapidly developed into a pursuit (see Map twelve, p. 159).46

During the night Panzer Group von Kleist received orders from OKH to suspend all westward movements. OKH worried that the Panzer Group, penetrating too deep behind the enemy's rear may be cut off and defeated in detail. They wanted to wait for 12th and 16th Armies' infantry to effectively strengthen the bridgehead and protect the southern flank before commencing west.

Guderian and Reinhardt promptly protested to von Kleist. XIXth Panzer Corps' commander went so far as to threaten disobediance in face of any restraint order. Guderian repeatedly explained his concept, first to Zeitzler, then to von Kleist, emphasising the importance of continued pressure on the French. Only a pursuit, Guderian argued, would deny the Allies time to rest, regroup, or counterattack. Furthermore, he underscored the Panzer Group's freedom of action, which would be threatened if it were intengled in an infantry battle. General von Kleist successfully argued the Panzer Group's case with OKH, and in view of the strong protests by the corps' and group commanders, Halder agreed to retract the order. With this decision von Kleist ended a particularily good day, since Colonel Schmundt, Hitler's Wehrmacht adjutant, delivered the Fuehrer's personal greetings with the Knights Cross during the afternoon.51

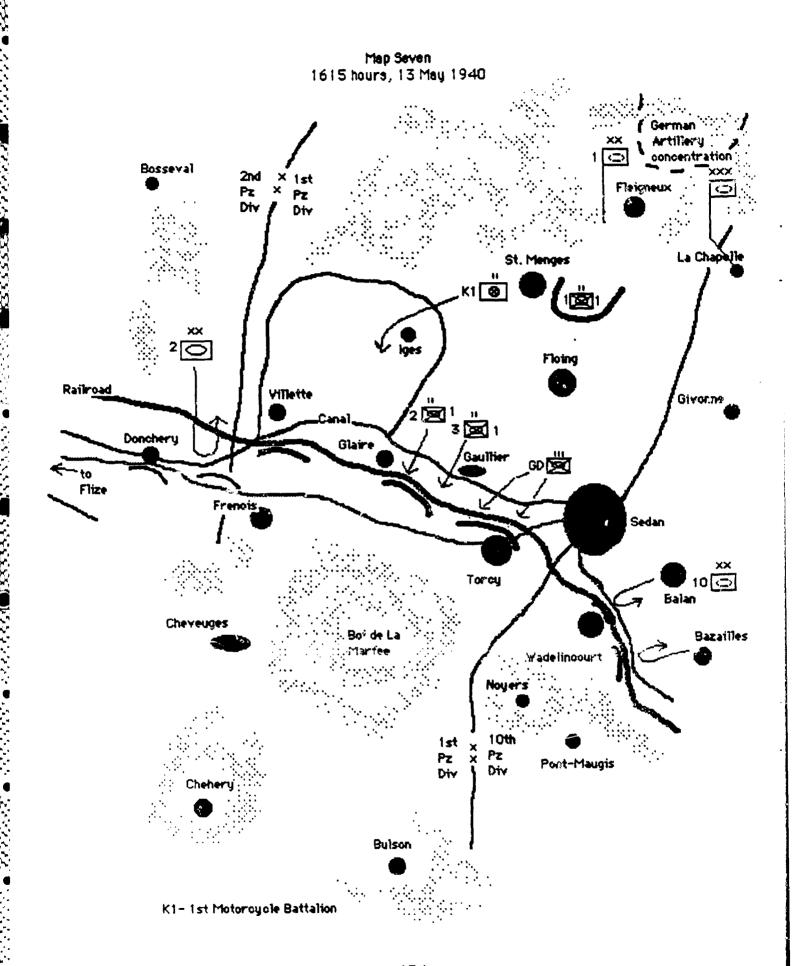
Guderian spurred on his division commanders throughout the night, driving first to the headquarters of the 2nd Panzer Division, followed by a visit to the 1st Panzer Division. Later, to the amezement of his tankers, he passed elements of the 1st Panzer Division on their way to Montcornet, where he met with the commander of the 6th Panzer Division, of Reinhardt's XLIst Panzer Corps. The link up at Montcornet established a two corps front for the Panzer Group. Guderian and 6th Panzer Division's commander coordinated the boundaries established in the Panzer Group order and commenced the pursuit to the Channel coast. Enemy actions on 16 May demonstrated just how decisive the victory at the Meuse had been. As the Panzer columns advanced westward unhindered, they passed streams of retreating French soldiers. Not organized to handle Prisoners of War (PDW), the German tankers simply disermed them, piled their weapons along the side of the road, drave over the weapons, and directed the French to the nearest POW collection center. The Panzer Group resched Abbeville on 19 May and the mouth of the Somme River the following day. General Helder's Campaign Plan unfolded as scheduled and the Allied armies were cut in half. Confidence levels at OKH, after the successful Meuse crossings and

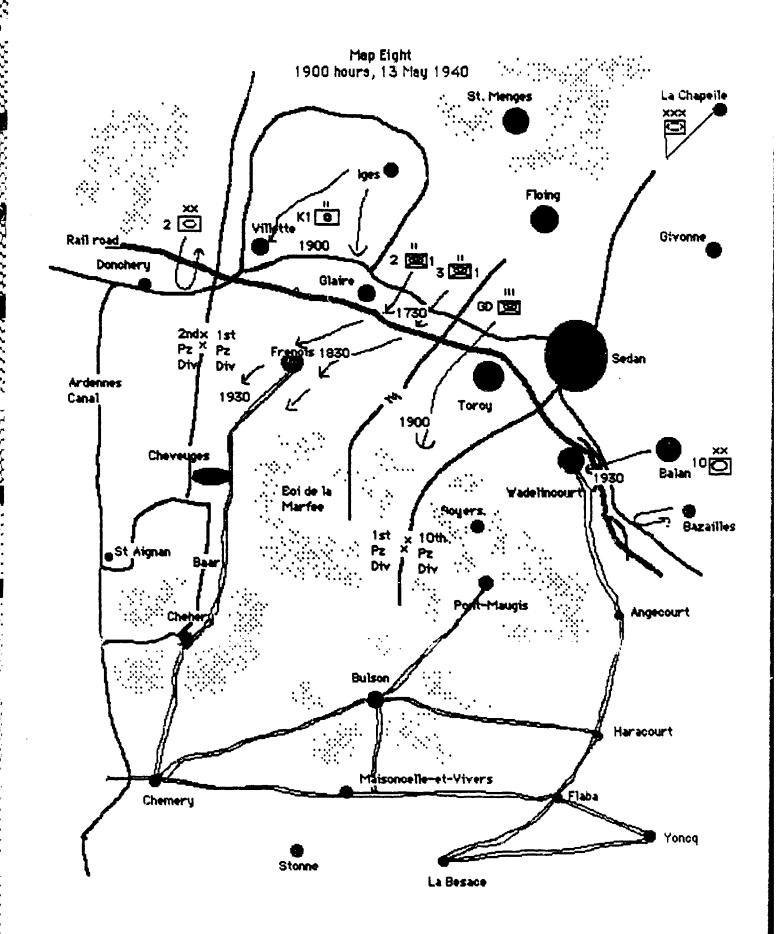
the breakout, were summed up by Halder when he confided in Colonel Wagner on 18 May that he felt like the blue forces leader in a war game, fully cognizant of the red team's actions in advance.52

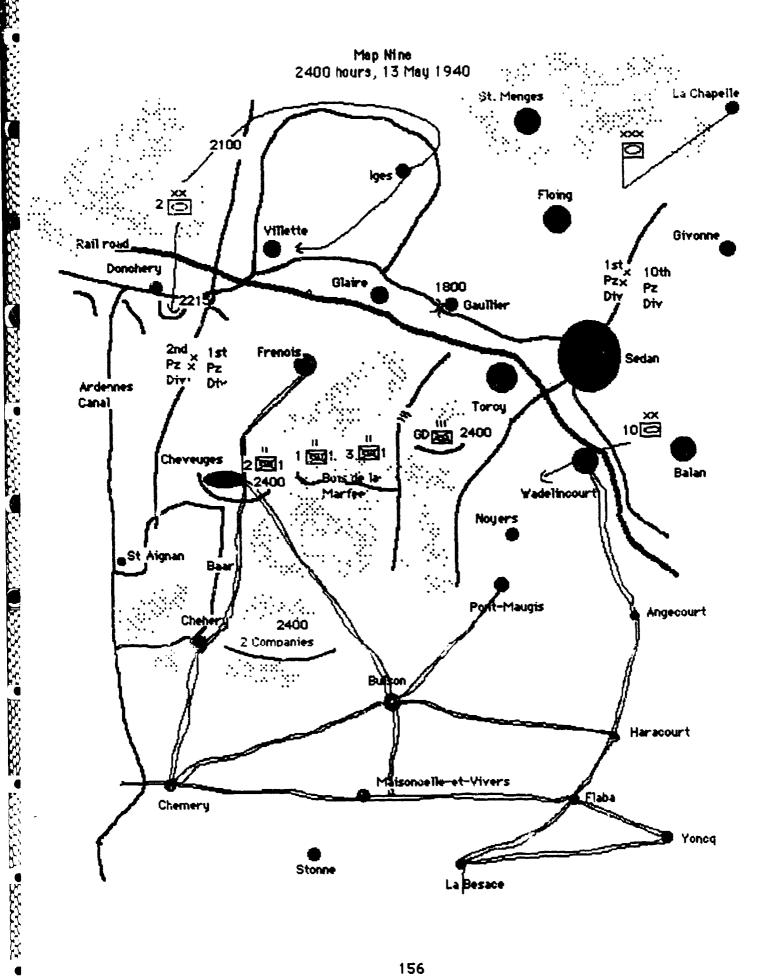
Logistics burdoned the forces in the bridgehead and breakout sectors on 15 May, because ground transportation columns could not get to combat units. The Luftwaffe flew several resupply missions dropping both fuel and ammunition into forward lines. Taxed to its maximum capabilities, the Luftwaffe requested Army Group A to remind its units that serial resupply missions should only be called for in emergencies. Traffic problems probably were the main cause for transportation units failing to resupply combat units with ammunition and fuel. Infantry armies hastened to reinforce the bridgehead and the flanks of the breakthrough blocked all roads into the Sedan sector. A very limited road network between the Semois and the Meuse compounded the Panzer Group's problems, because both supplies and combat units needed to cross the bridges at the same time. You Kleist became so infuriated that he confected you Rundstedt's headquarters, demanding that a responsible officer be flown to the crossing sites to reestablish control. Traffic problems, although annoying, did not hinder forward combat units from accomplishing their missions 53

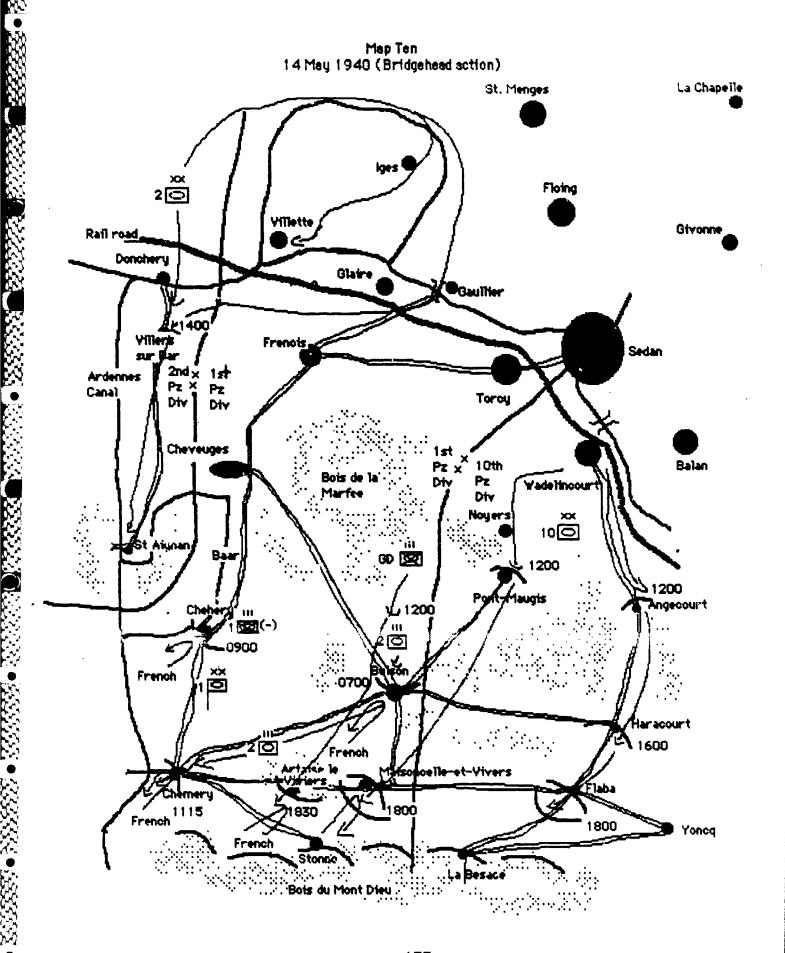
On the morning of 16 May, General Guderian was elected. His XIXth Panzer Corps achieved in six days what the German Army of 1914 could not accomplish in four years. As far as he was concerned, a westward drive to the Channel was all that remained to defeat France and her Allies. Hitler guerried Guderian during a briefing on 14 February 1940 about his intentions, should a river crossing and a breakthrough at Sedan succeed. Guderian then simply replied, "I intent on the next day to continue my advance westwards. The supreme leadership must decide whether my objective is to be Amiens or Paris. In my opinion the correct course is to drive past Amiens to the English Channel."54. On the morning of to May 1940, XIXth Panzer Corps had successfully

accomplished what Guderian predicted 90 days earlier.

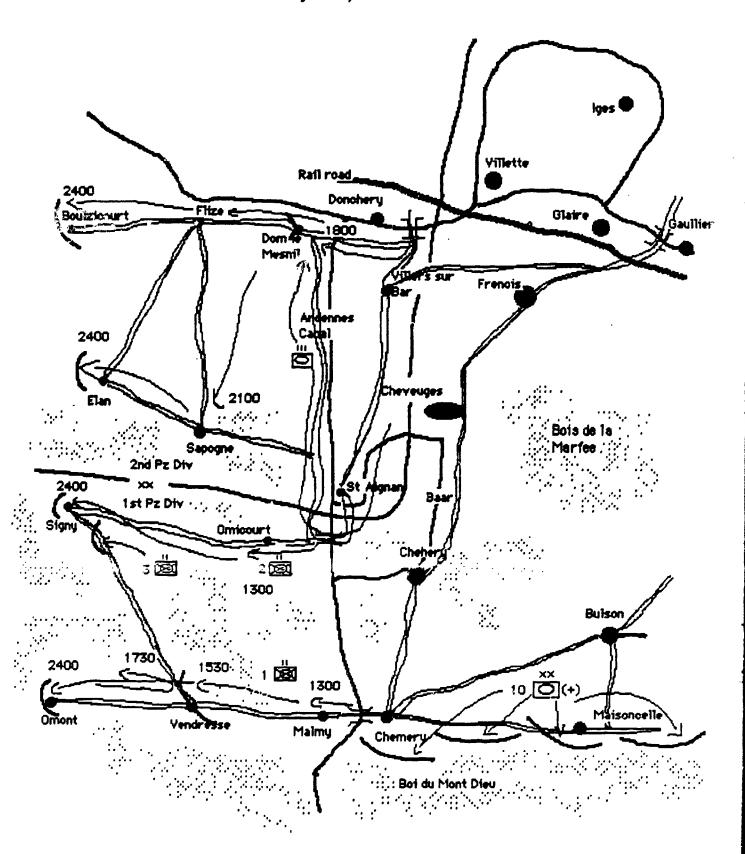


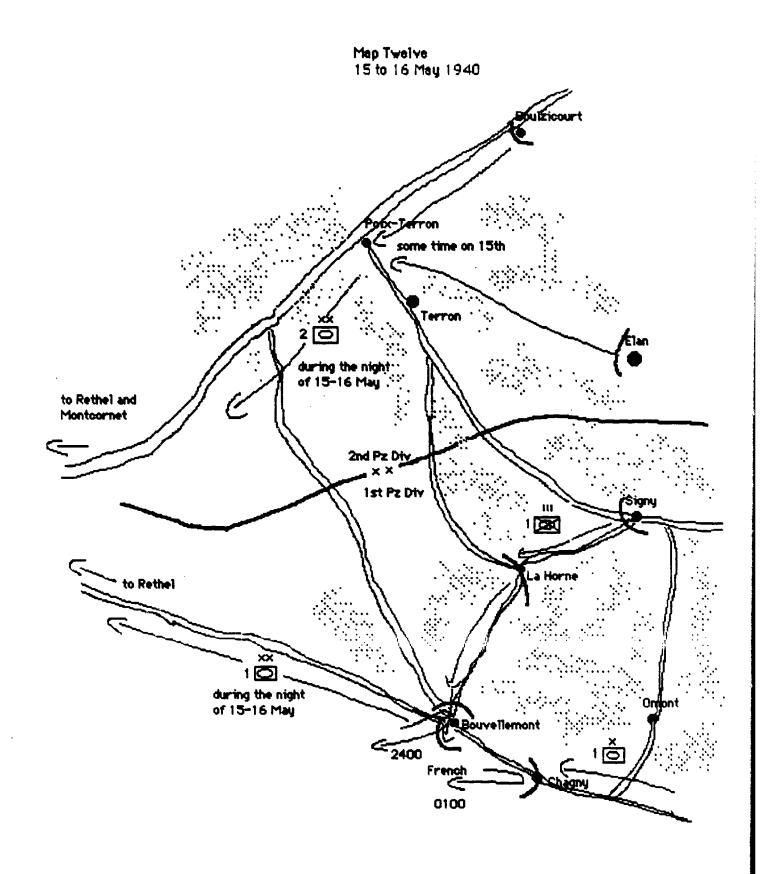






Map Eleven 14 May 1940, The Breekout





#### END NOTES

#### CHAPTER FIVE

iGuderian, Fanzer Leader, p. 80

<sup>2</sup>Gruppe von Kleist, Abt. la/op. Gruppen-Gef. Std. Ebly, den 12. 5. 40., 23.30 Uhr, Betr: Gruppenbefehl Nr. 3 fuer den Angriff ueber die Mass am 13. 5. 40.

3Yon Stutterheim executed the plan he coordinated with Guderian since the available time was too short to incorporate the group's changes. He filled the skies above Sedan filled with up to 2G aircraft, continuously, throughout the day. Only at 1500 hours did von Stutterheim attack en masse with 900 to 1000 aircraft, shifting to targets in depth after 1600 hours. Guderian complained the entire day about the faulty air bombardment, however, was rather satisfied when he found out through Nehring later in the evening that the air bombardment had been executed as previously coordinated. XIX. A. K. KTB 13.5.40.

41 bid.

5Wend von Wietersheim was born in Neuland/Loewenberg on 8 April 1900. He joined the army in 1918 and entered the 4th Hussar Regiment in 1919. After the imposition of the Versailles Treaty and the reduction to a 100,000 man army, von Wietersheim was allowed to remain in the Reichsheer. In 1938, he served as aide-de-camp to the 3rd Panzer Division commander, remaining in that position until he assumed command of the 1st Motorcycle Battalion. From 1941 to 1943 he commanded the 113th Panzer Grenadier Regiment, and in August of 1943 took command of the 11th Panzer Division. You Wietersheim's achieved the rank of Major-General in July 1944. He was a highly decorated officer, earning the German Cross in Gold and the Knights Cross with oak leaves and swords. After the war von Wietersheim settled in Bad Godesberg. Keilig, Res Heer, p. 364.

6Walther Wenck was born in Wittenberg on 18 September 1900. He began his military career by entering Freikorps von Oven in 1919. In the Reichsheer Wenck served in the 9th Infantry Regiment. In April 1939 he became the Operations Officer of the 1st Panzer Division. From February to September of 1942 he taught at the Kriegs Akademie (German War Acadamy). Other duties during World War II included: Chief of Staff, 57th Panzer Corps in September 1942, Chief of Staff, 3rd Rumanian Army in November 1942, Chief of Staff, Army Hollidt (later 6th Army) in December 1942, Chief of Staff, 1st Panzer Army in March 1943, Chief of Staff, Army Group Southern Ukraine in March 1944, Chief, Operations Section in the Army General Staff (OKH) and acting Chief of Staff of OKH at the Fuehrer Headquarters from July 1944 to February 1945. From April 1945 to the end of the war he commanded the 12th Army. Wenck achieved the rank of General of Panzer Troops in April 1945. He settled at Bochum after the war, and died at the age of 81 on 1 May 1982. Keilig, op cit., p. 361.

7Stoves, Die 1. Fanzer Division, p. 89; also, the change in attack time for the Luftwaffe was made late in the evening at Panzer Group von Kleit's headquarters. XXII. A. K. (Gruppe von Kleist) KTB 13.5.40.

8XIX. A. K. KTB 13, 5, 40,

91bid., Stoves, op cit., pp. 89-90; Schmidt, Regimentsgeschichte des Panzer Artillerie Regiments 73, p. 33; and Balck, Ordnung im Chaos, pp. 269-270.

10Dech, Panzer durchbrechen eine Armeestellung, Nr. 5, p. 48; and XIX. A. K. KTB 13. 5. 40, also Horne, To Lose & Bettle, pp. 304-309.

11ARKO referred to Artilleriskommandeur (artillery commander). In the case of ARKO 101 he was the corps artillery commander with a staff to coordinate the corps fire support.

12XIX. A. K. KTB 13. 5. 40; Dech, *Panzer durchbrechen eine Armeestellung,* Nr. 2, p. 76; and Stoves, *op cit.*, p. 90.

13Dach, op cit., p. 77; Stoves, op cit., p. 93; and XIX.A.K. KTB 13.5.40.

141bid., Balck, op cit., pp. 269-270; and Dach, op cit., p. 77.

15XIX. A. K. KTB 13. 5. 40; and Baick, op cit., pp. 270-271; and Stoves, op cit., pp. 88 and 94.

161bid; Stoves, op cit., p. 88.

17XIX. A. K. KTB 13. 5. 40.

181 bid.

190nly selected elements of the 2nd Panzer Division reached the Meuse in time to conduct the river crossing. It was not until late in the night that the entire division closed in the vicinity of Donchery, XIX. A. K. KTB 13. 5. 40.

20Dach, op cit., pp. 78-79.

211bid., pp. 79-80.

22The XIXth Panzer Corps only identified elements of a Fortress brigade, the 2nd, 3rd, and 5th Cavalry Divisions, and the 55th Infantry Division in its sector. Liss, *Westfront (939,440*, pp. 162-163; and XIX.A. K. KTB 13.5.40.

23Generalkommando XIX.A.K., Abteilung la, Korpsgefechtstand Wald bei La Chapelle, den 13.5.40., Betr: Korpsbefehl Nr. 4.

24General kommando XIX. A. K. Abteilung Ia. Korpsgefechtsstand, Wald bei La Chapelle, den 13. 5. 40; and XIX. A. K. KTB 13. 5. 40.

25Dach, op cit., p. 49 and 54; and Horne, To Lose's Battle France 1940, pp. 288-292.

26The Germans reported 53 French and 47 British aircraft shot down and another 65 severely damaged. Of the 100 sircraft shot down over the Sedan area, 56 succumbed to the Flak gunners and 44 to Ma 109's. These losses presented 22 percent of the remaining Allied air forces. Another 15 percent were severely damaged and 8 percent lightly damaged. German forces had 90 Me 109's at their disposal for fighter protection. Dach, op cit, Nr. 2, p. 84 and Dach, op cit, Nr. 5, p. 56; Horne claims the losses were probably closer to 90, Horne, op cit, p. 334.

27XIX. A. K. KTB 14. 5. 40.

281 bid.

291bid; Dach, op cit, p. 84; Stoves, op cit, pp. 97-98; F. W. von Mellenthin, Fanzer Battles & Study of the Employment of Armor in the Second World War, translated by H. Betzler, (Norman: University of Oklahoma Press, 1956), p. 15; read see Chapter 14, To Lose a Battle, Horne, op cit, pp. 319-346.

30Dech, op cit., p. 84; Balck, op cit., pp. 272-273; Stoves, op cit., pp. 97-99; also, in Balck's book, Ordnung im Chaos, Chehery and Chemery are interchanged. It remains especially difficult to reconstruct the exact course of these engagements. Colonel Keltsch was wounded seriously. Colonel Johannes Nedtwig, commender of the 1st Panzer Regiment replaced Keltsch. Different authors provide various figures on the number of destroyed French tanks. Dech and Balck claim at least 70, while you Melleuthin only reports 50 destroyed. Suffice it to say, the French suffered significant losses in tanks on the 14th.

31 Mark III Panzers carried 99 rounds of 3.7 cm main gun, and 2000 rounds of machine gun ammunition. Mark IV's carried 87 rounds of 7.5 cm main gun, and 3150 rounds of machine gun ammunition. Armin Hall, Fanzer Illustrierte Geschichte der Kompfiesgen (Herrsching: Yerlag Manfred Pawlak, 1971), pp. 83 and 84; XIX.A.K. KTB 14.5. 40; Dach, op cit., Nr. 2, pp. 84-85; and Schmidt, op cit., pp. 33-34.

32Thirty artillery pieces were of 155 mm caliber and 10 were 105 mm. βασή, φρώτες, φ. 86.

33XIX. A. K. KTB 14. 5. 40; Dech, op cit., p. 86; and Stoves, op cit., p. 100.

34XIX. A. K. KTB 14. 5. 40; and Stoves, op cit., p. 100. One troop of the Armored Reconnaissance Battalian attempted to penetrate the northern edge of the Bois du Mont Dieu at about 1800 hours, but was repulsed by the French defenders in the woodline.

35XIX. A. K. KTB 14, 5, 40; Stoves, op cit., p. 100; and Strauss, Geschichte der 2. (Wiener,) Fanzer Division, p. 46.

36Hit with a first instead of feeling around with your fingers (Klotzen, nicht Kleckern), was a phrase Guderian used when explaining armored tactics and doctrine. His aim was to impress the idea of one main thrust and not to piecemeal forces at several places, accomplishing nothing. Stoves, op cit, p. 102.

37XIX. A. K. KTB 14. 5. 40; Guderian, Fanzer Leader, p. 83.

38Stoves, op cit., p. 101.

39XIX. A. K. KTB 14. 5. 40; Dach, op cit., p. 86; Balck, op cit., p. 274; and Stoves, op cit., p. 100.

40XIX. A. K. KTB 14. 5. 40., and XXII. A. K. (Gruppe von Kleist) KTB 14. 5. 40.

41The noncommitted divisions Guderian referred to, were the 8th Panzer Division and the 2nd Infantry Division (mot). XIX.A.K. KTB 14.5.40; and XXII.A.K. KTB 14.5.40.

42Gruppe von Kleist Abt. la/op., Gruppen-Gef. Std. Bellevaux, den 14. 5. 40., 23.15 Uhr, Betr: Gruppenbefehl Nr. 5 fuer den 15. 5. 40., XIX. A. K. KTB 14. 5. 40.

43Actually only one and one-half divisions of the corps were repelling the counterattacks at anyone time. Neither 2nd nor 10th Panzer Divisions were involved in the main tank battles of 1.4 May. Heeresgruppe A, Arbietsgebiet Qu I. 14. 5. 40.

44Yon Mellenthin, op cit., p. 16.

45XIX. A. K. KTB 14. 5. 40; for a thorough study on french doctrine read Robert Allan Doughty's *The Seeds of Disaster The Development of French Army Doctrine 1919-1939.* 

46Liss, op cit., p. 165.

47The Spahl Brigade was an Algerian native cavalry unit serving in the French Army.

48XXII. A. K. (Gruppe von Kleist) KTB 15. 5. 40; XIX. A. K. KTB 15. 5. 40; Balck, Ordnung im Chaos, p. 276; and Stoves, Die 1. Panzer Division, p. 104.

49Balck, op cit., p. 277.

50When Guderian visited 1st Infantry Regiment on the morming of 16 tay, Balck told him of the episode during the night. Balck explained that his men were so exhausted and fatigued from combat that orders became meaningless. He realized that the only way to get them to attack was for him to walk toward the objective. Balck went on to explain that he felt confident no German soldier would allow an officer to walk into certain death alone. Balck, op cit., p. 106; XXII. A. K. (Gruppe von Kleist) KTB 15.5.40; XIX. A. K. KTB 15.5.40; Guderian, Fanzer Leader, pp. 85-86; and Stoves, op cit., p. 106; and Strauss, Geschichte der 2. (Whener) Fanzer Division, p. 47.

51XXII. A. K. (Gruppe von Kleist) KTB 15, 5, 40; XIX. A. K. KTB 15, 5, 40; and von Mellenthin, opcit, p. 16.

52Wagner, Der General-Quartiermeister, p. 171; and Gruppe von Kleist Abt. la/op.,

Gruppen-Gef. Std. Bellevaux, den 14.5.40., 23.15 Uhr, Betr: Gruppenbefehl Nr. 5 (der den 15.5.40.

SSXXII. A. K. (Gruppe von Kleist) KTB 15. 5. 40; XIX. A. K. KTB 15. 5. 40; and Heeresgruppe A, Arbeitsgebiet Qu I, 15. 5. 40.

54Guderian, op cit., pp. 70-71; At the Berlin meeting on 14 February 1940, General Busch, commander of the 16th Army expressed a lack of confidence in Gucerian's plan to cross the Meuse, to which Guderian hotly replied that it was not Busch's mission and not to worry about it in any case. During the night of 13 to 14 May, Guderian sent a teletype message to inform Busch of the successful river crossing. Guderian, op cit., p. 82.

## CHAPTER SIX

# CONCLUSION

"Yiel leisten, wenig kervertreten, mehr sein als scheinen, muss sich jeder Generalstebseffizier zum Walhopruch nehmen."

Feldmerscheil Gref Schlieffen (. 4. 1903

XIXth Penzar Corps' success during the first five days of the Battle of France can not be attributed to any one single factor or event, but rather to a combination of planning and training executed under the guidance of the German Army General Staff. The roots of the operation emerged in the latter part of September 1939 when Hitler confronted the service chiefs with his decision to attack France. A rejuctant Army General Staff, led by General Franz Helder, attempted for two months to dissuade the Fuehrer from this venture, because the officers felt it was not in the best interest of the German Army, nor the German nation to attack France. When, however, Hitler left them no alternative, they conceded and plannous "Fall Gelb", establishing a clear goal of defeating France. The officers on the General Staff and those occupying Command and General Staff positions within the Field Army were the driving force in the success of the May 1940 offensive. Who then were these man?

Every key position on the General Staff and in the Field Army was occupied by officers from the original 4000 officer Reichsheer cadre. The creators of the Reichswehr trained its officers in the tradition of von Schlieffen and von Moltke. Captuin Truman Smith, the American Military Attache in Berlin and an analyst of Reichswehr and Wehrmacht conditions noted in 1936, "that the Reichswahr officer corps was, in the opinion of all competent foreign observers, the most highly trained, efficient, and forward looking officer corps in the world." They were officers rooted and educated in the traditions of the old imperial army, living for the day when Germany would again be a major power. In many respects, they lived in the past and the future, but not in the

present.3

The Vercettles Treaty reduced Germany's officer corps to 4000 active Army officers. With a pool of ten times as many to chose from, the creator of the new post war army, General Hans von Seeckt, retained only the very best. The limitations of the treaty forced von Seeckt to stress quality and performance in the officer corps. These virtues in turn attracted men yearning for citism, tradition, and the idealism of the military profession. The requirements of the Abitur further narrowed the selection and essured that only men with a good general educational background would join the officer ranks. In its training, however, the Reichswehr stressed technical and tactical proficiency rather than generalities. You Seeckt introduced an Officer Evaluation Report (OER) system that served to identify weak officers and those with potential for Promotions and diamissals were handed out a results of this OER system4. advancement. Competition in the small officer corps was therefore extremely intense, since only one bad OER surely meant dismissal from the army. Besides technical and tectical qualities, another even mold important component of the OER was the officers' character evaluation. Officers raised under von Seeckt's system quickly learned to conform because "everything from curfew violations to substandard performance in the field" 5 fell under the catagory of character failures. Officers incapable of meeting the expectations of the new army found themselves without a profession. their vecency quickly filled, since equally qualified ex-officers were waiting for the chance to prove their qualities. In such a fierce competitive atmosphere only the cream of the crop survived, thus producing a military culture feeding on "efficiency mania." It was this selected corps of officers that planned, trained, and led the German Army of 1939 and 1940.6

The General Staff's efforts after September 1939 revolved around two major issues simultaneously, the Deployment Plan for France and army reforms as a result of the recently completed Polish Campaign. The army's campaign in Poland revealed problems that most armies

experience when they enter the field of battle after an extended period of peace. The most critical of these deficiencies were faulty junior leadership and improper divisional tables of organization. More importantly was the ability and the willingness within the officer corps to identify specific problems and to initiate proper action to ameliorate them.? One would have expected very little critizism after the army's impressive victory in Poland, however, this is another example of the officer corps trained in the "efficiency oriented" Reichaheer of the Weimer Republic. As a result both problems received the necessary attention, the resulting solutions being instrumental in the armu's success in France, but particularily in XIXth Penzer Corps' advance across the Meuse.8

Junior leaders raised under the new National Socialist regime were full of faith and idealism, but lacked training and experience. You Brauchitsch recognized this deficiency and elected juntor leadership as his number one priority over the winter-spring period of '39-'40. Two week courses were established to train young officers and noncommissioned officers on the fundamentals of leadership, tactics, and the carring for their soldiers. These courses were vital to Concomitantly, battalion and regimental solidifying the tactical backbone of the Army. commanders trained to lead bettalions and regiments. Schools disseminated a common doctrine and fostered an offensive spirit. Senior commenders, like General von Bock, desired more aggressive leadership, however, were in no way advocating a blind interpretation of orders that would lead to the "attack-mania" experienced in the officer corps of the late 19th century.9 Training exercises conducted from bettelion to divisional levels emphasized officer and NCOs employing initiative within the constraints of the commanders' aim. Commanders, in their orders, using verbal and written statements of intent, provided subordinates with the operational concept and an idea of the big picture. The training period served two purposes. Commanders educated and trained subordinates on what we label Auttragstaktik today, and secondly to familiarize units with the new TO&Es and weapons systems. Thus, by May 1940, they had a relatively good idea of the

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limitations of the new equipment, but also enjoyed an opportunity to train their soldiers to overcome those deficiencies. Additionally, commenders could rely on subordinates to comprehend the scope of an order, especially in the midst of a battle. The senior officer knew that his subordinate understood the mission and, aware of his subordinates' strengths and weaknesses, had an approximate idea of how his directives would be executed.

Initially planned as a long range project after the Polish Campaign, the reorganization of light divisions into Panzer divisions had to be executed at a much faster pace because of Hitler's insistance on an early offensive in the West. The end result provided the army with ten Panzer and three motorized divisions for "Fall Gelb". It was not the ideal structure, since it incorporated numerous expedients, however, provided the largest mechanized strike force the world had yet seen.

The German General Staff always planned with a clear perception of main effort. Hitler, though, wrestled with von Brauchitsch and Halder continuously, beginning in October 1939, introducing almost daily changes in an attempt to force his will on military operations. General Halder, however, shielded his officers from these daily annoyances, to allow his staff to conduct the necessary theoretical, operational and strategic planning, and war gaming required to formulate a campaign plan. It was in essence the General Staff, those trained officers operating under the tutelege of Halder, who finally refined the operational plan executed on 10 May 1940.

Since its creation, the Prusso-German General Staff always enjoyed relative independence in its internal affairs. Throughout the winter and spring period of 1939-1940, the General Staff continued to function under the illusion that nothing had changed in the relationship between the political and military leadership. It was, however, during this period that the riff between these two institutions widened significantly. Hitler's meeting with von Brauchitsch on 5 November 1939, followed by the public denunciation of him during the assembly of the senior Wehrmacht

commanders on 20 November 1939 must be viewed as a significant turning point between Hitler and the army. General Halder, however, adhered to the old rules of General Staff independence and provided his staff with the time and freedom to develop a campaign plan based on solid intelligence and tested for its fessibility. Halder disseminated his intentions to field commanders, ensured complete understanding of the concept, and linked air and land combat elements into a highly mobile and flexible combat experienced force. He designated a Panzer Group as main effort and assumed a calculated risk by launching it against the weekest sector on the Allied line. 10

The most important sepect of this plan, however, was its link to the Field Army through a thorough understanding of the operational goals. The doctrinal concept of leaders leading from the front further enhanced the plan's chances for success, because leaders were in a position to take full adventage of unforseen opportunities, rather than relying on subjective and garbled reports from the front. The Army, during its developmental stages, recognized the need for communication in its doctrine of mobile warfare and provided communicate at all levels with the necessary means to accomplish their tasks. Thus, commanders were free to command by positioning themselves at the perceived critical point. The chief of staff, as the commanders deputy and technical expert, guided the staff through its routine of running the organization. Commanders and chiefs of staff were a very close knit team, since the chief of staff, sometimes able to focus on a much broader scale than the commander, had the prerogative of issuing orders contrary to the commander. It is not by mistake that the relationship between a commander and his chief of staff was lebeled a marriage.

During the offensive operations, adherence to fundamental rules, doctrinal concepts, and a solid plan significantly contributed to the German Army's success. The command and control structure, well in hand, enabled OKH to control its armies in a teut menner, rather than allowing them to operate on loose reigns as was the case in 1914. Actions at operational and tectical levels

Staff profited from the lessons of the initial phases of the western campaign in World War I where commanders, unewere of changes to the operational concept because of a lack of communications, conducted isolated tectical actions that spoiled the Campaign Plan. This campaign is probably the last opportunity to study the German Army's General Staff as an independent instrument, anjoying relatively little interference from Hiltler. Wilhelm Weiss, chief editor of *Der Hoelkische Beobechter*, 12 noted in his 1941 book *Triumph der Kriegskunst* that "the calm atmosphere in which the officers of the General Staff conducted themselves was reminiscent of an institution rooted in the knowledge and experience of generations before them". 13 As such the General Staff evaluated situations and meneuvered its armies to an unprecedented success. It would lose this luxury in another year and a half. Unfortunately, General von Brauchitsch and his General Staff did not receive the proper credit for their actions. The label of greatest military genius went to Adolf Hitler. 14

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Commanders down to battalion level in Guderian's Panzer divisions understood the operational concept in 1940, and thus were able to take full advantage of unexpected circumstances. Intense training during the winter and spring period, at all levels, prepared commanders for the mental challanges of making those critical dictaions. The numerous war games conducted at army group, army, and corps provided them with the opportunity to study all aspects of the upcoming battle. At the unit level, repeated river crossings at locations closely resembling the actual crossing sites, leaders rehearsed their tasks until they became second nature. At the training centers, mechanized infantry units practiced attacking fortified locations, tankers refined their armor movement techniques, and both incorporated the Luftweife into combined arms warfare. Through this rigorous training period, leaders perfected the mobile warfare doctrine that ultimately led them to victory in France.

Armament problems, discussed earlier, presented notable problems to German tankers, however, a thorough understanding of doctrine aided in overcoming the shortfalls. Guderian instilled in his tankers that the engines of their vehicles were just as important as their weapons. Thus, through flexibility, tactical mobility, and employment of combined arms the Germans negated their deficiencies. The German Army's training doctrine during the winter and spring period further instilled the necessary offensive spirit and linked the Luftwaffe more closely to the ground commander. Guderian's close coordination with von Stutterheim throughout spring facilitated the planning effort of both commanders for the Meuse River operation. Stutterheim, also a product of the Weimar Republic's Reichswehr, knew what the ground force commander expected from the Luftwaffe, and thus concentrated the available time to properly plan and train for the most effective support possible. Guderian on the other hand could rely on von Stutterheim's pilots to supplement his lack of artillery. The close working relationship between the two commanders and their staffs, resulted in von Stutterheim providing the support for the river crossings that he and Guderian coordinated, rather than what you Kleist and Sperrie demanded. The German Army also enjoyed gratuities of the Allied General Staffs, since the advance though the Ardennes, a calculated risk, would probably have taken on a different course had the French known in advance of the intended Belgian withdrawel, or had they employed stronger forces along the Sedan-Mezteres sector.

While the German Army, through a rigorous training program, incorporated lessons learned from the Polish Campaign, the French failed to suitably evaluate the massed use of tanks and aircraft. Although recognizing the potential threat, French doctrine was not changed. OKH always worked with a clear understanding of main effort, while the French, falling for the German deception plan, positioned and oriented their main effort at the wrong location. Once the offensive commenced, they failed to properly evaluate German intentions, and even after the Meuse

crossings, remained idle and incapable of mounting a significant counteroffensive. The French High Command neglected to recognize the value of combining motorization and mechanization with the Luftwaffe into a combined arms doctrine. The French failed to organize their armored forces for mass employment, engaging them piecemeal over the entire front, and thus incapable of providing the penetration effect of a massed armored formation. A lack of mobile doctrine, command and control, and combined arms warfare further resulted in the failure of their only massed armored attack, on 14 May, by the 3rd Armored and 3rd Mechanized Divisions. Concomitantly, the French General Staff miscalculated its ability to move reserves by 75 percent on transit times alone, failing to plan both for roads congested with civilian refugees, and the Luftwaffe's bombing campaign.

The most essential lesson is that the German Army was not a myth, but was rather very similar to most other vestern armies. It faced the same problems that other armies faced. However, what made the German Army different was its ability and willingness to evaluate itself and undertake the necessary changes to improve in both personnel and training. Through years of "efficiency aimed" training and a common doctrine, staffs were able to dispense with lengthy operations orders during the actual campaign and simply operate with fragmentary orders. The concept of commanders at the front ansured more face to face discussion between commanders and subordinates, which contributed not only to higher confidence levels in the command, but also furnished a clear understanding of the leaders' aims. Like our army, dedicated officers and NCOs enabled the German Army to overcome inherent friction. Numerous General Staff officers like the Wagners, Zeitzlers, and Nehrings, following Field Marshal Count von Schlieffen's principle that "staff officers should accomplish much, remain in the background, and be more than they seem", contributed as much, if not more to the success in May 1940 than the flamboyant Guderians and Rommels. Since corps staffs organized on tactical lines were rather small, logistics for example

remained largely the function of divisional and army staffs. As chief logistician in the Army High Command, Wagner deserves much of the credit for the logistics plan during the Battle of France. Without his pioneering of aerial resupply, the Panzer divisions could not have maintained their momentum. He engineered a logistics effort, establishing intermediate depots, and resupplying 300 kilometers beyond the rail heads on 18 May 1940. Such innovative concepts were unheard of in 1940. When Guderian did not receive his new Mark IIIs and IVs on time to conduct a detailed training program, dedicated officers and NCOs ensured crews' and units' readiness on 10 May 1940. Von Manstein's insistance of shifting the main effort in the winter of 1939, Zeitzler's traffic control plan, and Liss' intelligence preparation of the battlefield all accumutively contributed to the success in 1940. We must also not lose sight of the fact that the new generation of officers and NCOs, although instilled with National Socialist faith and ideals, were in fact raised to think and lead themselves. These young men, through the intense training effort, were molded into leaders by the older traditional generation by May 1940. 15

XIXth Panzer Corps' advance through the Ardennes was a remarkable achievement, but also provided the German General Staff with a fair amount of lessons learned. Most notably was the need for better traffic control. Without the Panzer Groups' traffic control plan the entire operation in the Ardennes would probably have resulted in a disaster. Zeitzler, however, in his after action report was very critical of the allocation of forces to traffic control. Additionally, he emphasized the need for a traffic control staff at army headquarters, organized under a separate TO&E, to include airborne traffic control. The traffic control staff, he explained, should have not only the responsibility to plan and carry out all functions, but also be provided with the authority to enforce the plan. 16

The absolutely sterling planning of both Guderian's and von Kleist's staffs, and the series of war games specifically conducted to analyze the engineer tasks, clearly identified the main effort

for the engineers and allowed them to plan and prepare accordingly. The numerous rivers and streams made it a necessity to have as many engineer bridging assets as far forward as possible in the march columns. The campaign also identified a need for more bridging assets, since on 14 May, Guderian's corps would have had serious problems crossing the Ardennes Canal had it not taken the bridges by a coup de main. All of XIXth Panzer Corps' and Panzer Group von Kleist's bridging equipment had been committed. The General Staffs plan to train infantrymen as assault engineers became a key factor, since the unexpectedly vast numbers of barriers and minefields in the Ardennes, along with its rivers and streams, could not have been supported by engineers alone. The war games, conducted at all staff levels, served as a tool to identify problems, which would not have to be confronted in the heat of battle. General von Brauchitsch, interviewed by a reporter in late 1940 was questioned on whether rivers present significant ostacles in modern warfare. The Army Commader in Chief replied that "the rivers by themselves are not significant obstacles anymore, but rather of greater importance is who attacks and defends them." Without the thorough preparation of the army, and its modern outlook on combined arms warfare, the Battle of Frence may well have had a different outcome.

In the final analysis then it is plain to see that the German Army General Staff planned while the French Army's staff slept. The planning and training combined with the leadership of a dedicated officer corps provided the basis for success. General Guderian simply took advantage of the modern technical equipment and, with an almost reckless dere devil attitude amongst the commanders and officers of his corps, coupled to a complete understanding of the operational concept, led XIXth Panzer Corps through the successful operations from 10 to 15 May 1940.

#### **END NOTED**

#### CHAPTER SIX

1Although there were 4000 active officers in the Reichswehr in 1934, about 500 transferred to the Luftwaffe in 1935, and another 450 were doctors and veterinarians. The army really only had a core of about 3050 active officers to expand on.

<sup>2</sup>David N. Spires, *Image and Reality The Making of German Officers*, 1921-1933 (Connecticut: Greenwood Press, 1984), p. 126.

3lbid., pp. 121-122.

4The OER system was also a legal way around the restrictions of the Versailles Treaty, because for every officer the Reichswehr dismissed a new one could be enrolled. In this manner the Reichswehr built an unofficial officer reserve pool. Under von Seeckt, officers received OERs bianually, however, Wilhelm Heye, von Seeckt's replacement in 1926, introduced an annual system which would double the number of dismissals.

5Spires, *ap cit.*, p. 129.

61bid., pp. 127-128 and 129; also Lewis, "Reflections on Military Reform: One German Example", p. 8.

7Lewis, *ap cit.*, p. 10.

8|bid., pp. 9-12.

9Lewis, Forgotten Legions, pp. 97-98.

10 Lewis, "Reflection on Military Reform: One German Example, pp. 9-12.

11In 1938 the German General Staff removed co-responsibility from its Officers Handbook. The commander held the sole responsibility for all decisions under his command. However, commanders realized that in some situations during a battle, their chiefs of staff were in a much better position to make a decision concerning the overall operation. It is also important to note that when chiefs of staff took this unauthorized prerogative, it was carried out within the limitations of the commander's intent. Oberkommando des Heeres, Hanbuch fuer den Generalstabsdiensi im Kriege (Berlin: Reichsdruckerei, 1939), pp. 14-15.

12The Yoelkischer Beobachter was the official National Socialist party newspaper.

13Wilhelm Weiss, *Triumph der Kriegskunst* (Muenchen: Zentralverlag der NSDAP., Franz Eher Nachf, 1941), pp. 14, 16, and 84.

14Weiss, ap cit., p. 100.

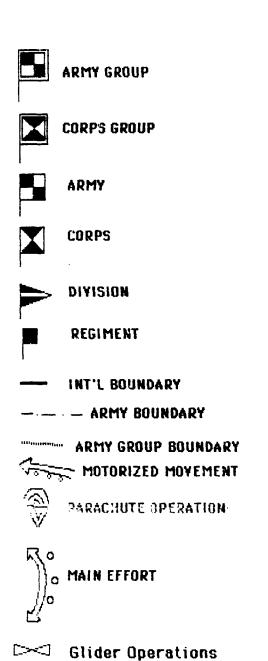
15(bid., p. 101; and Wagner, Der General-Quartiermeister, p. 169.

16Generalkommendo XXII. A. K. (Gruppe von Kleist) Chef des Generalstebes, den 10. YIII. 1940, Betr: Yorlaeufige Erfahrungen mit grossen mot. Yerbaenden.

17Weiss, op cit., p. 102.

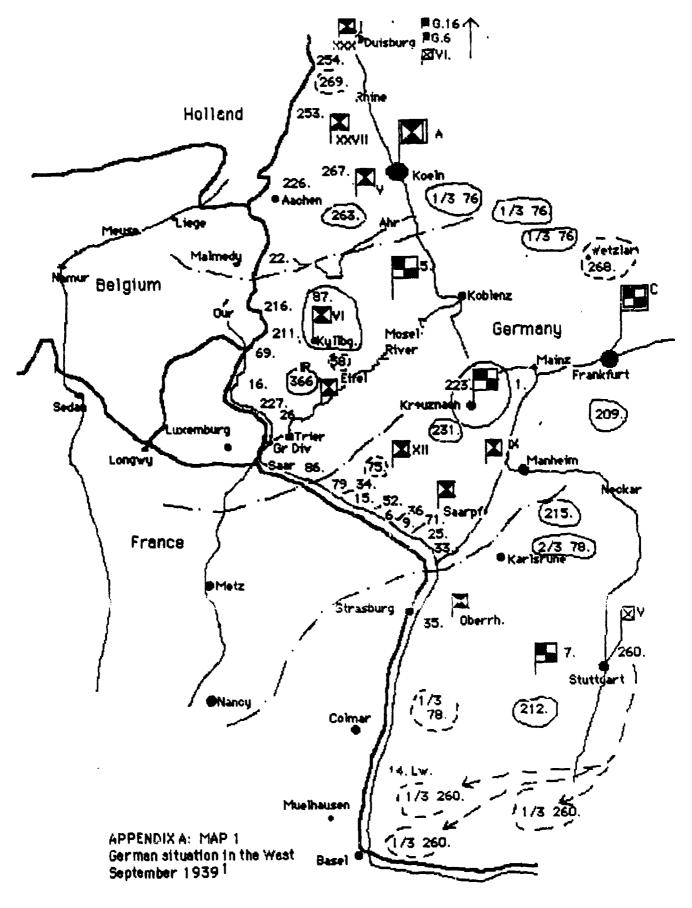
APPENDIX A

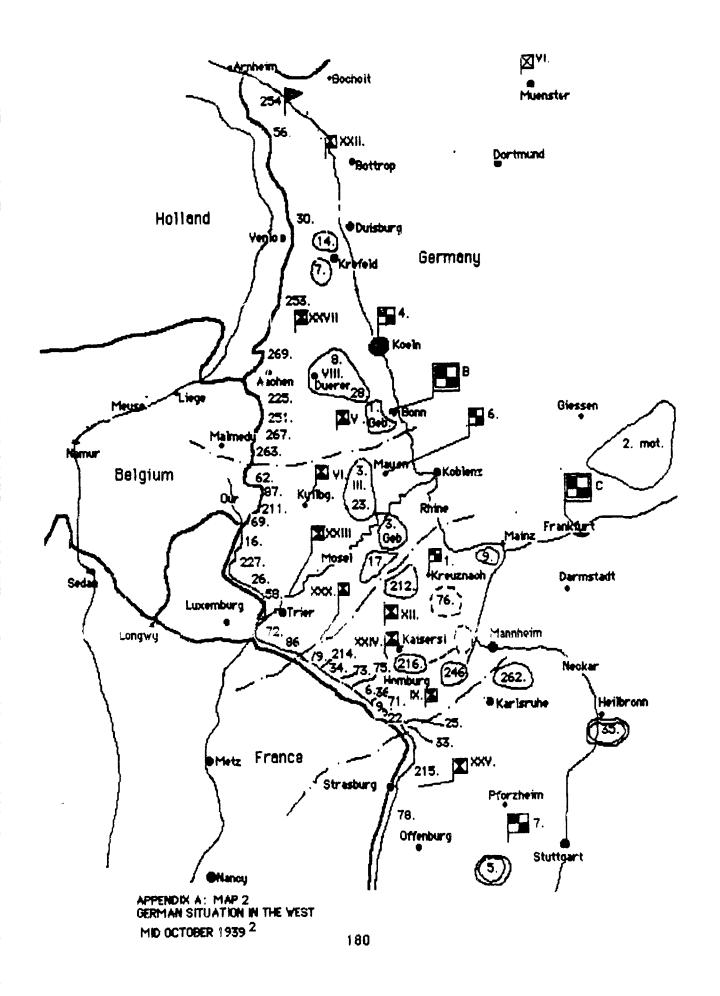
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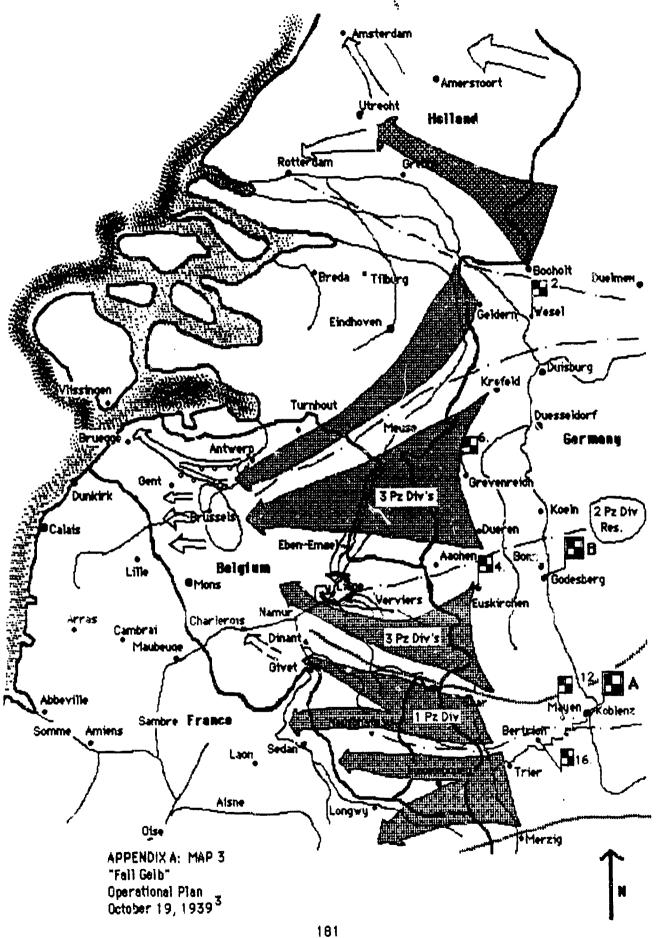


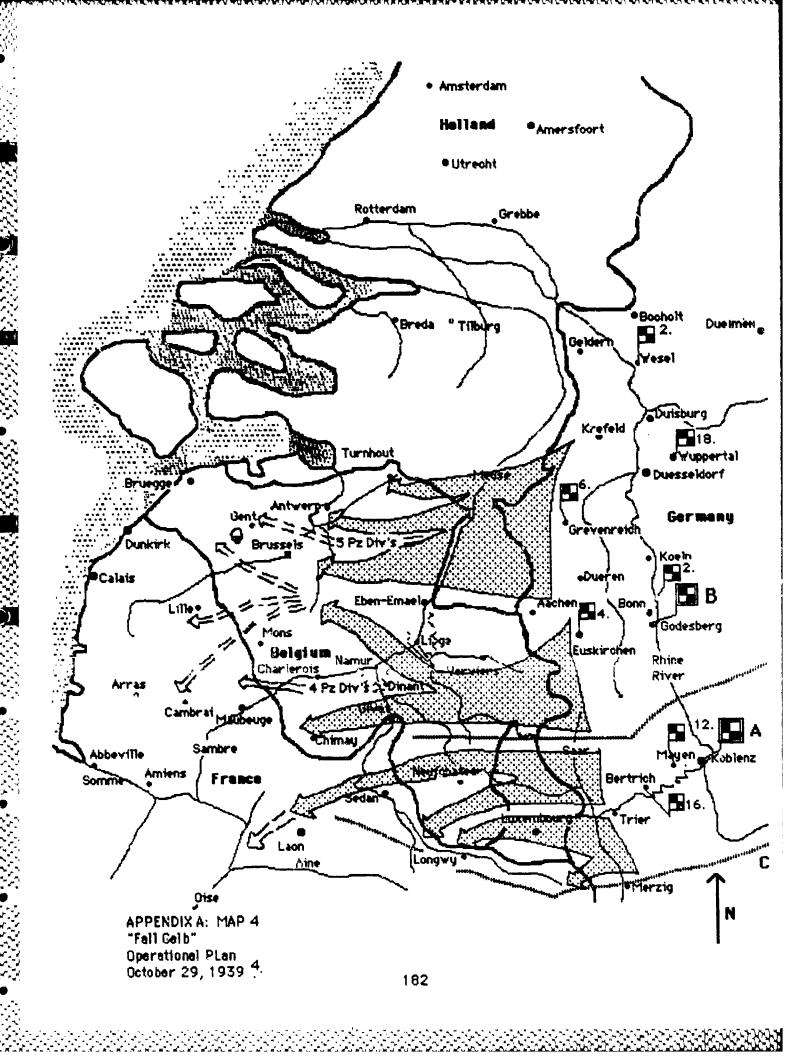
Fixed wing Air Assault

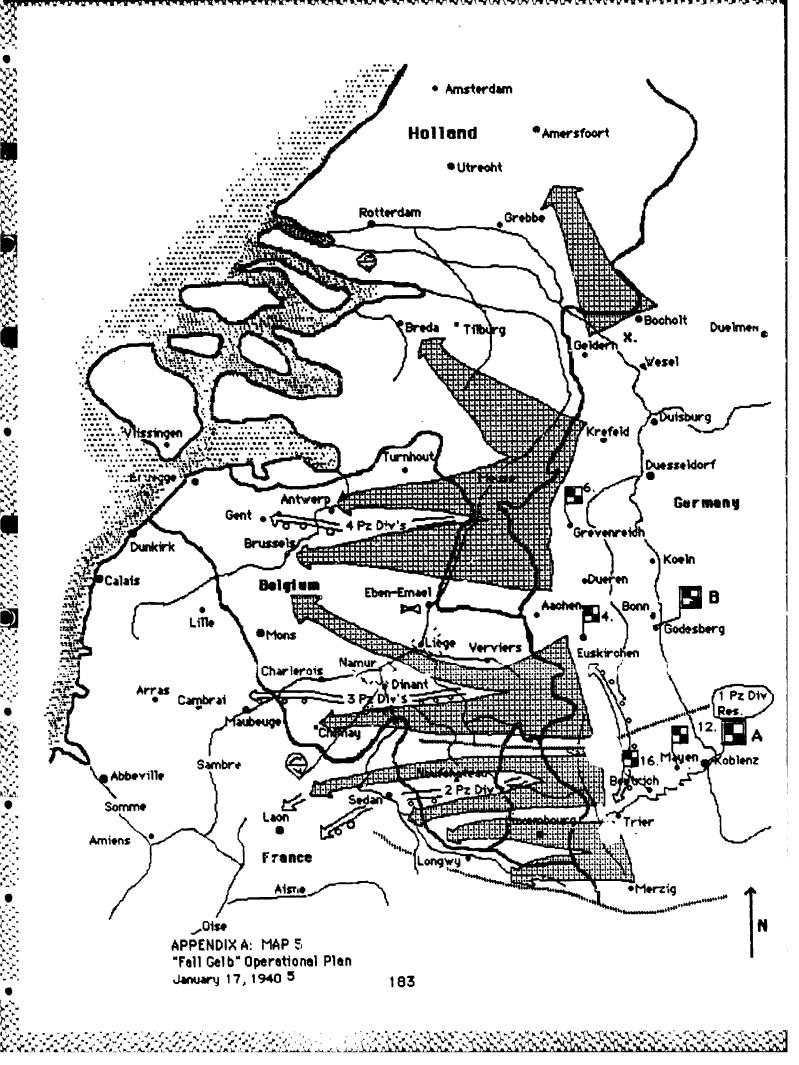


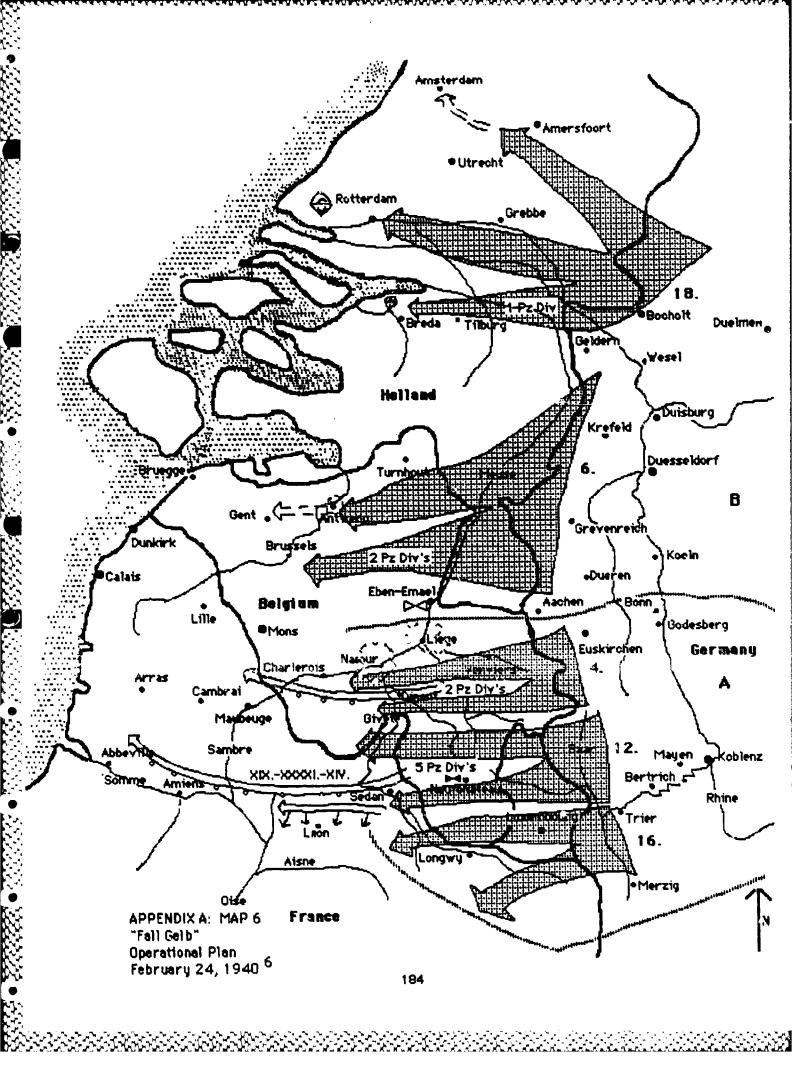


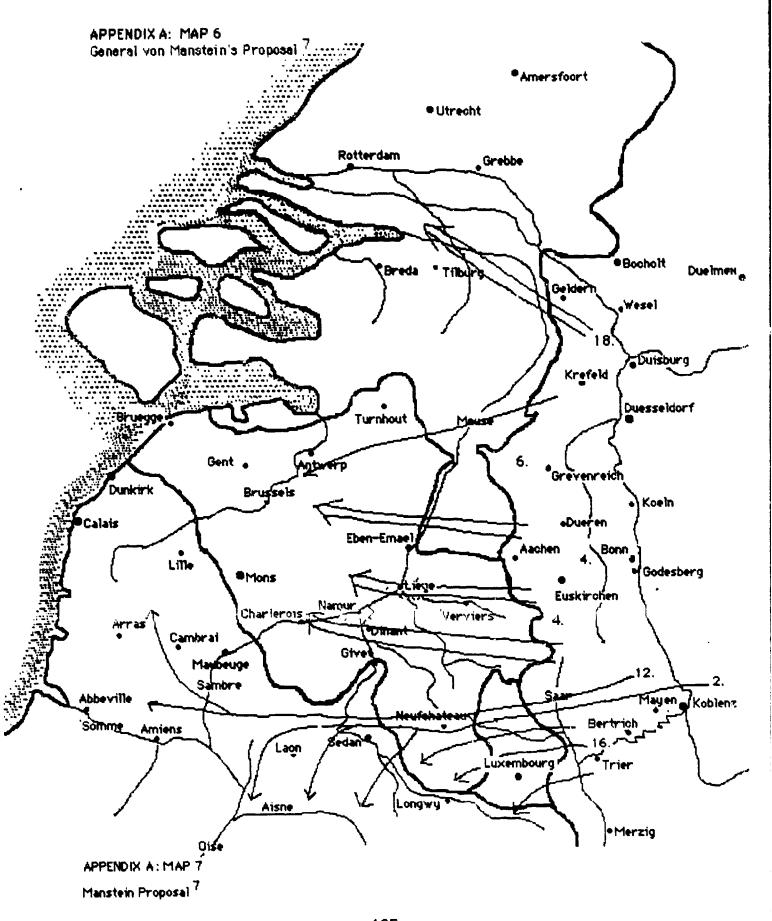












#### END NOTES

#### APPENDIX A

1 Hens-Adolf Jacobsen, Fall Gelb, p. 4; and Oberkommedo des Heeres (OKH), Der Faldzug in Frankreich wom 10. Mai bis 25. Juni 1940; Lage West am 9.9.1939 (7714 ENGR BASE REPRO, October/November 1949, Reproduced at the Command and General Staff College, Fort Leevenworth, 1983), p. 83-3183/2.

2-Jacobsen, Fall Gelb, p. 28; and OKH, Der Feldzug in Frankreich vom 10. Mai bis 25. Juni 1940, p. 83-3183/3.

Successen, Fell Gelb, p. 30.

41bid., p. 42; Taylor, The March of Conquest, p. 166; and OKH, Der Feldzug in Frankreich vom 10. Mai bis 25. Juni 1940, p. 83-3183/4.

5Jacobsen, Fall Gelb, p. 96; and OKH, Der Feldzug in Frankreich wom 10. Mai bis 25. Juni 1940, p. 83-3183/7.

6Jacobsen, Fall Gelb, p. 142; and Taylor, The Merch of Conquest, p. 167.

7Generalfeldmerscheit Erich v. Menstein, *Verlorene Siege* (Muenchen: Bernerd & Greefe Yerleg, 1981), p. 102.

APPENDIX B

#### APPENDIX B

#### MARCH ROUTES

1. Tactical March Routes (TMR) assigned to Panzer Group von Kleist.

TMR A Geichlingen: Start: Mosbech, Daun, Wallenborn, Weidenbech, Steinborn, Kyllburg, Malberg, Melbergweich, Seffern Sued, Bickendorf, Rittersdorf, Oberweis, Neuhaus, Sinspelt, Nieder-Geckler, Geichlingen, Roth, Ylanden, Merscheid, Gralingen, Hoscheid, Niederschlinder, follow the roed north of the Seur to intersection 1 km east of Esch, Buderscheid, to intersection 800 m northeest of Schumenn, Mecher, Boewen, to intersection 3 km southeest of Boewen, Raphange.

IMR B Wellendorf: Start: Horperath, Ulmen, Stainingen, Mehren, to intersection 1 km southwest of Oberwinkel, Gillenfeld, Eckfeld, Manderscheid, Eisenschantt, Oberkeil, Gindorf, Badem, Erdorf, Bittburg, Messerich, Bettingen, Peffingen, Mettendorf, Freilingerhoehe, Wellendorf, Bettendorf, Diekirch, Ettelbrueck, Niederfeulen, Großbus, Grewels, Martelingen.

IMR C Bollendorf: Start: Kaisersesch, Driesch, Ober Scheidweiler, Hasborn, Wittlich/north, Hupperath, Landscheid, Niederkeil, Binsfeld, Hersforst, Speicher, Roehl, Scharfbillig, to intersection 1 km east of Esslingen, continue on road to intersection 2 km east of Meckel, Niederweis, Echternacherbrusck, Bollendorf, (cross river), Befort, Muellerthel, to intersection 1 km west of Breitweiler, Christnach, Fels (east), Medernach, Schrondweiler, Cruchten (8 km southwest of Diekirch), continue to railway station 1 km east of Berg, Bissen, Redingen, Attert.

<u>TMR D Echternech</u>; Start: Cochem, Moseltalstraße to Alf, Kinderbeuren, Wittlich (south), Salmrohr, Hetzerath, Foehren, Ehrang, Kordel, Welschbillig, Eisenech, Menningen, Minden, Rosport, Steinheim, <u>Echternech</u>, Michelshof, Alttrier, Heffingen, Fels (south), Angelsberg, Reckingen, Saeul, Noerdingen, Beckerich, Oberpellen, Tontelingen.

2. Mann Supply Route assigned to Panzer Group you Kleist.

- COTONIA TOTALI - EZGOGGI-TONNEN DONEN SEGENIA TOTALI DONEN TOTALI SENERAL TOTALI

Begin railway station Bitburg follow road to Trier to 1 km east of Masholder, Masholder, Mieder Stedem, Wolsfeld, Echternach, Michelshof, Onsdorf, Muellerthal, follow TMR C to Medornach, Bissen to Redingen.

Feeder roads controlled by Panzer Group von Kleist.

<u>Road Wallendorf:</u> Hachenburg, Herschbach, Woelferlingen, Herschbach, Marienhausen, Ruescheid, Neuwied, Plaidt, Mayen, Monreal, Bermel, Oberelz, Horperath.

<u>Road Bollendorf:</u> Reichsautobahn from Limburg to Koblenz, cross Rhine at Koblenz-Kesselheim, continue on eutobahn to Kaisersesch.

<u>Road Echternach:</u> Limburg, Hirschberg, Peernberg, Badem, cross Rhine at Niederlahnstein, follow Moselstraße to Cochem.

<u>Foeder roed Herborn-Woelferlingen:</u> Herborn, Hoehn, Ailertchen, Langenhahn, Woelferlingen.

Feeder road Heuchelheim-Limburg: Reichstrasse 49 from Heuchelheim to Limburg.

Feeder roads for 8th Panzer Div: All roads within the left and right boundaries are evailable for movement of the division. Left boundary: Wittlich, Platten, Wehlem, Bernkestel, Longkamp, Mosbach, Allenbach, Kirschweiler, Idar-Oberstein. Right boundary: Alf, Bullay, Moritzheim, Hesweiler, Panzweiler, Kappel, Dickenschied, Rheuen, Bundenbach, Kellenfels, Kirn. The division received orders to utilize every available crossing over the Moselle to feed into TMR 8.1

#### APPENDIX B

#### SPECIAL MOVEMENT INSTRUCTIONS TO PANZER GROUP von KLEIST

## First Echelon XIXth Penzer Corps:

- e. 2nd Penzer Division: TMR A, controls all roads within it's deployment area and feeds directly into TMR A.
- b. 1st Panzer Division: TMR B, controls all roads within it's deployment area and feeds directly into TMR B.
- c. 10th Panzer Division: 1/2 TMR C and 1/2 TMR D, controls all roads within it's deployment area, must use the following feeder roads, at times specified in time table, to feed into TMRs C and D.
  - (1) Hermeskeil Erhang, cross Moselle at Pfalzel
  - (2) Bernkestel, Neviand, Osenn, Klausen, Hetzerath.
  - (3) Traben-Trabach, Wolf, Kinheim, Urzig, Bombogen.
- (10th P. D. can only use feeder roads between H-7 and H+5.
- d. XIXth Panzer Corps, Corps troops and Flak Regiment 102: as per XIXth Corps operation order.

#### Second Echelon:

- a. XLith Panzer Corps: 6th Panzer Div, XList Panzer Corps, Corps troops, and 1/2 8th Panzer Div on TMR A. 6th and 8th Panzer Div's use designated feeder roads to tactical TMR.
- b. XLith Penzer Corps: 2nd Infantry Division (mot), XList Penzer Corps, Corps troops, and 1/2 8th Penzer Div on TMR B. 2nd Infantry Divison (mot) and 8th Penzer Divisions use designated feeder roads to tectical TMR.
  - c. XIXth Corps: Logistics/resupply on TMR C.
- d. XIYth Motorized Corps: 29th Infantry Divison (mot) on TMR D. 29th uses designated feeder roads to tectical TMR.

## Third Echelon:

a. XIYth Motorized Corps main Tactical Operations Center (TOC) with Corps troops and 13th Infantry Division (mot) follow on TMRs B and C.

Once the second echelon crosses the international border, TMR A and D (within Germany) revert to 12th and 16th Armies respectively.2

## MOVEMENT INSTRUCTIONS ISSUED TO PANZER GROUP von KLEIST on May 3, 1940

### 1. XIXth Penzer Corps:

- a. Begin movement at H-8 (D-1) from start line (Seinsfeld-Eisenschmitt-Wittlich-Bernkestel) to just short of the international border. Elements of 10th Penzer Div can only use feeder roads from H-7 to H+5. While resting and refueling during H-4 and H-2, road intersections at Kordel must be cleared for Yilth Corps, and road from Ruwer-Pfaizel-Biewer must be cleared for XIIIth Corps.
- b. 102nd Flak Regiment and 1st Flak Battalian/3rd Flak Regiment must be organized into corps movement for the duration. 1st Battalian/3rd Flak Regiment and Balaan Battary/1st Observer Battalian, must cross the Rhine river no later than H-hour. st Battalian/3rd Flak Regiment will be alerted by the Penzer Group.
- c. Once clearance has been provided to cross the international border, the following must remain open for General Headquarters Troops and the second echelon:

along TMR A:

Mosbruch prior to H+4
Deun prior to H+6
Seinsfeld prior to H+10
Rittersdorf prior to H+14
Roth prior to H+18

along TMR B:

Monreel prior to H+6
Manderscheid prior to H+11
Eisenschmitt prior to H+14
Bitburg prior to H+15
Wallendorf prior to H+20

along TMR C:

Poich prior to H+3
Wittlich prior to H+7
Irrel prior to H+11
Bollendorf prior to H+12

along TMR D:

Cochem prior to H-2 Alf prior to H+2 Wittlich prior to H+5 Eisenech prior to H+11 Ralingen prior to H+12

- 2. XLI Panzer Corps: By prepared to initially move to a line Seisfeld-Badem-Niederkail. The following roads are available:
- e. 6th Penzor Div: Feeder road Wellendorf to Horperath, change to TMR A. Cross Rhine bridge at Neuwied no earlier than H+9. When lead elements reach Seinsfeld, rest and close the rest of the division to Oberelz. Tracked vehicles may move past Monruel after H+8.
  - b. 2nd Infantry Division (mot): Feeder road Bollendorf and TMR C to Wittlich. At

Wittlich take Wittlich-Eisenschmitt roed, proceed on TMR B. Cross bridge at Koblenz no earlier than H+7; bridge is only available for 10 hours. When lead elements pass Badem, close division to Kaisersesch.

- c. Corps truops: Begin movement on feeder road Echternach no earlier than H+4 1/2 from Nassau. Cross Rhine bridge at Niederlahnstein no earlier than H+5, continue to Cochem behind the General Headquarters Troops of March Serial C. At Cochem take Route 259 to Ulmen.
- d. 8th Panzer Div: Assemble in deployment area at dusk on D-Day (about H+15). Until assembly, east-west roads must remain open for 16th Army. No later than noon on D+1 the division must be across the Moselle river, waiting in rest areas. Use designated feeder roads for the division. The division must clear TMR D for 29th Infantry Division (mot) from Alf after H+26, and from Wittlich after H+27 1/2. 8th Panzer Div then follows 6th Panzer Div and 2nd Infantry Division (mot) on their respective TMRs. The division may use TMR C (up to Roehl and the stretch Roehl-Bitburg) for the purpose of feeding in to TMRs A and B.
- 3. XIYth Panzer Corps: Be prepared to conduct road movement on D-Day no earlier than H+15.
- a. 13th Infantry Division (mot): Conduct tactical road march on feeder road Herborn-Woelferlingen to east shore of Rhine River. Close and rest the division. On order cross Rhine at Neuwied bridge, and be prepared to conduct movement on TMC B or C.
- b. 29th Infantry Division (mot): Conduct tactical road march on feeder road Heuchelheim-Limburg and feeder road Bollendorf to Koblenz. Cross Rhine no earlier than H+19. Continue on feeder road Echternach to Alf. Close division and rest. Be prepared to continue on or about noon on D+1, follow southern element of 10th Panzer Div on TMR D.
  - c. XIVth Penzer Corps, Corps troops: incorporated with 13th Infantry Division (mot).
- 4. <u>Tactical Command Post Group von Kleist</u> departs Niederlahnstein at 1500 hours on D-1 initially on feeder road Bollendorf, then TMR C to main TOC at Masholder. The last March serial passes through Wittlich at 2100 hours prior to XIXth Panzer Corps assembly. XIXth Panzer Corps will ensure that TMRs in it's deployment area remain open.
- 5. <u>General Headquarters Troops of Panzer Group von Kleist</u> will follow behind 10th Panzer Div on D-Day to vicinity international border. March serials will consist of:

March Serial A: 49

49th Artillery Regiment

passtime 35 minutes

assemble and depart no earlier than H hour at Niederlahnstein: use

feeder road Echternach to Welschbillia.

March Serial B:

1st Security Regiment

(rear services)

passtime 70 minutes

assemble and depart no earlier than H+1 at Niederlahnstein; use feeder road Echternach to Wittlich, change to TMR C and use until Niederweis.

change to MSR.

Merch Serial C: 1st Abbelwarter Regiment3 pesstime 80 minutes

> assemble and depart no earlier than H+ 2 1/2 at Niederlahnstein; follow March serial B to Welschbillig; then elements to Masholder and

Stahl.

Main Supply Routes: See "Special Instructions for Logistics and Resupply for Panzer Group von Kleist", (O. Qu./Qu. 1 Nr. 175/40 g. Kdos., dtd. 1, 4, 40.)

- 7. Non Penzer Group von Kleist units: Designated units on the distribution list not attached to Group von Kleist are requested to notify their subunits of reference and road movements. Direct coordination with TMR users is authorized.
- 8. Air Reconneissance Groups of Group von Kleist: Ground elements of the Air Recon Groups of the various corps and divisions must coordinate movements of TOCs and airfields with their respective ground headquarters for TMR usage. Ground HQs will only allow small elements on the TMRs.
- 9. Road merch speed: Corps Headquarters and March Serial commanders designate merch speeds according to the situation. They will ensure that serials and vehicles maintain proper distances.
  - 10. <u>Traffic control</u>: As per Traffic control order, (see traffic control in chapter three)

### 11. Code words for traffic control:

2nd Panzer Div Aprel (appel) 1st Penzer Div Birne (peer) 10th Panzer Div Traube (grape) XIXth Corps troops Pflaume (plum)

Group von A. st General

Tomate (tomato) (add A, B, C, D for each March Headquarters Troops

serial)

6th Panzer Div Hirsch (stag) 8th Panzer Div Roh (deer) 2nd Infantry Division (mot) Fuchs (fox) Hase (rabbit) XLIth Motorized Corps troops 13th Infantry Division (mot) Hebicht (hewk) 29th Infantry Division (mot) Falke (falcon)

XIYth Panzer Corps troops Sperber (sparrowhawk)

Non Penzer Group road users Tenne (fir)

Ground elements of Air

Eiche (cek) Recon units

12. Rest grees: All villages along Group von Kleist TMRs may be used as rest grees. Units must coordinate with Yith and Yilth Corps for rest areas along feeder roads.

- 13. Movements of Infantry divisions remaining in Germany:
  - a. 21st infantry Division/XYIII Corps will clear the following roads on D-Day:
    - (1) Polch-Kehrig after 0800 hrs
    - (2) Neuwied-Monreal 0800 hrs to 1000 hrs, off and on after 1300 hrs
    - (3) Koblenz-Ochtendung-Mayen 0800 hrs to 1000 hrs, and after 1300 hrs.
- b. 9th Infantry Division/XL Corps as much as possible refrains from road movements in the area north of Dierdorf-Selters-Freilingen road on D-Day until H+7 to facilitate passing of 6th Penzer Division's rear elements.4

## APPENDIX 8

## MOVEMENT TIME TABLE FOR PANZER GROUP YOU KLEIST

D-Day = 10 May 1940 H-Hour = 0530 Dusk: 2100 = H+15

H-3

## XIXth Penzer Corps

| <u>D-1</u> |   |
|------------|---|
| H-18       | Start assembly  |
| H-8        | Cross start line  |
| H-2        | Cochem cleared (start point TMR D)  |
| D-Day      |   |
| H-4 to H-2 | Rest, refuel  |
| H-hour     | Begin Operation NIWI  |
|            | XIXth Corps crosses internetional burder  |
| H+ §       | Border barricades removed; roads clear for movement   |
| H+2        | Bridge at Wallendorf ready for crossing   |
| H+3        | Kolberg and Polch cleared   |
| H+4        | Bridge at Ylanden and south of Weilerbach ready for crossing  |
| H+5        | At Belgian border. Occupy assault position, close combet forces for strike. Wittlich cleared (TMR D)          |
| H+6        | Monreel cleared   |
| H+7        | Earliest attack (probably not before H+9)   |
| H⊶8        | Wittlich cleared (TMR C)  |
| H+10       | Field expedient bridge at Minden complete; Construction of <i>structura</i> bridge begins. Seinsfeld cleared. |
| H+12       | Structural bridge at Minden complete; 41st Engineer Battalion freed for other missions                        |
| H+14       | Eisenschmitt cleered  |
| H+15       | Lead elements at railway line Libramont-Neufchateau-Hachy; tail of corps has crossed Bitburg-Trier line.      |
|            | Penzer Group von Kleist Army troops   |
| <u>D-1</u> |   |
| H-11       | Alert   |
| D-Day      |   |

Prepared to depart in deployment areas

# Marching orders issued Begin assembly on highway 42

| H- hour      | March serial A begins movement from Niederlahnstein                                       |
|--------------|---|
| H+35 minutes | March serial A has passed through Niederlahnstein   |
| H+1          | Merch serial B begins movement from Niederlahnstein                                       |
| H+2          | March serial B has passed through Niederlahnstein   |
| H+2 1/2      | March serial C begins movement from Niederlahnstein                                       |
| H+4          | March serial C has passed through Niederlahnstein;  |
|              | Koblenz bridge is eveilable for XLIst Motorized Corps                                     |
| H+8          | March serial A lead elements at Hetzerath   |
|              | March serial B lead elements at Wittlich, reaches tail of 10th Penzer                     |
|              | Division  |
|              | March serial C lead elements at Bremm   |
| H+11         | March serial B lead elements at Irrel (behind 10th Panzer Divison);                       |
| H+12         | March serial A leed elements at Welschbillig; rests                                       |
|              | March serial C at Roehl; rests (with the exception of Command group and Signal Regiment). |
| H+121/2      | Group Adjutant and Signal Regiment arrive at Mesholder                                    |

# Tactical Command Post

| D-1            |   |
|----------------|---|
| H-15           | Prepared to depart; Truck column departs; Cars depart about H-14                                      |
| H-11           | Cars pass columns of Y11th Corps at Speicher  |
| H-10           | Cars arrive at Main Tactical Operation Center in Masholder  |
| H-9            | Truck column clears Wittlich; has passed through XIXth Panzer Corps area                              |
| H-6 (2400 hrs) | Truck column arrives in Masholder  Decision to cross internation border must be received and issued!! |

# XLI Penzer Corps

| <u>D-1</u> |  |
|------------|--|
| 13:30 hrs  | Alert notification to Flak 1/3 (to XIXth Panzer Corps) Group will notify   |
| D-Day      |  |
| H-4        | Alert Corps (only after receiving border crossing decision)  |
| H+4        | Prepared to depart (excluding 8th Panzer Division)   |
| H+5        | 2nd Infantry Division (mot) begins movement from Limburg; Corps<br>troops are authorized to cross Rhine at Koblenz |
| H+7        | Lead elements of 21st Infantry Division (mot) cross the Rhine at   |
|            |  |

|            | Koblenz  |
|------------|--|
|            | 6th Panzer Division begins movement from Freilingen                      |
| H+9        | Lead elements of 6th Penzer Division cross Rhine at Neuwied              |
|            | (21st Infantry Division (mot) cleared Neuwied-Monreel road at H+7)       |
| 11. 49     | 8th Panzer Division prepared for movement in deployment area             |
| H+13       | Leed elements of 21st Infantry Division (mot) in Wittlich; Rest for 1    |
|            | hour while closing tail end of division to Keisersesch                   |
|            | Leed elements of 6th Penzer Division in Daun                             |
| H+15       | (or dusk) 8th Panzer Division begins it's movement from the              |
|            | deployment area  |
|            | 2nd Infantry Division (mot) continues to move; at Eisenschmitt switch    |
|            | to TMR B   |
| H+16       | Leed elements of 6th Penzer Division (mot) at Seinsfeld; closes          |
|            | division to Obereiz and rests for the night                              |
| H+17       | Lead elements of 2nd Infantry Division (mot) at Badem; rests for the     |
|            | night; tail end of 2nd infantry Division (mot) has crossed Rhine at      |
|            | Koblenz; bridge clear for 29th Infantry Division (mot)                   |
|            | Tail end of 6th Panzer Division has crossed Rhine at Neuwied; clear for  |
|            | 13th Infantry Division (mot)   |
| H+171/2    | Lead elements left merch serial of 8th Panzer Division at Bernkestel     |
| H+ 18 1/2  | Lead elements right march serial of 8th Panzer Division at Zell          |
| <u>0+1</u> |  |
| H+19       | Lead elements right march serial of 8th Panzer Division at Bullay;       |
|            | crossing TMR D; TMR D blocked for 5 hours                                |
| H+20       | Tail and of 8th Panzer Division clears deployment area                   |
| H+21       | Leed elements left merch scriel of 8th Penzer Division at Niederkeil;    |
|            | rests for night  |
| H+22       | Leed elements right march serial of 8th Panzer Division at Lutzerath     |
| H+22 1/2   | Tail and left merch serial of 8th Panzer Division has crossed Mosella at |
|            | Bernkastel   |
| H+24       | Tail and right march serial of 8th Panzer Divison has crossed Mosella at |
|            | Bullay; TMR D open again   |
| H+27       | If Libramont is taken 6th Panzer Division and 2nd Infantry Division      |
|            | (mot) continue their merch from Seinsfeld-Bedem                          |
| H+37       | 6th Panzer Division and 2nd Infantry Division (mot) at international     |
|            | border (start line)  |
| H+39       | Earliest start time for 8th Panzer Division to continue (not before      |
|            | dusk); each march serial has a passtime of 5 hours                       |
|            |  |
|            | XIYth Corps  |

| <u>0-080</u> |  |
|--------------|--|
|              | Alerted  |
| H+15         | 13th and 29th Infantry Division (mot) begin movement |

| ()<br>())          | च रेन्स राज्य राज्य र स्थाप स्था<br>स्थापन | IN BERRAR THURUSHING THE CHICHTER CHICHTER BURLEUR DRUBURUR (HUM) HURUR CHICHTER CH |
|--------------------|--|---|
| RA<br>Reg<br>Mar   |  |   |
| - <b>%</b><br>- 7간 |  |   |
| <u> </u>           |  |   |
|                    | <u>D+1</u>   |   |
|                    | H+19   | Lead elements at Rhine  |
| ×                  |  | 1 3th Infantry Division (mot) rests and closes division   |
| <b>&amp;</b>       |  | 29th Infantry Division (mot) crosses Rhine at Koblenz and continues on feeder road Echternach and TMR D to Alf  |
| 8                  | H+26   | Lead elements of 29th Infantry Division (mot) at Alf; 8th Panzer Division cleared Alf at H+24;  |
|                    |  | rest and close tail elements  |
|                    | H+29   | Trail elements of 29th Infantry Division (mot) has crossed the Rhine at Koblenz; bridge is cleared; On order continue on TMR D behind 10th  |
|                    |  | Panzer Division   |
|                    |  | Be prepared to cross Rhine at Reuwied; 1/2 division on feeder road Wallandorf and TMR B behind 6th Panzer Division; 1/2 division on   |
|                    |  | feeder road Bollendorf, TMR C, and MSR behind 8th Panzer Division   |
|                    |  | All times for XIYth Corps are situation dependent  5  |
|                    |  |   |
| <b>5</b> 3.        |  |   |
| 2                  |  |   |
| 283                |  | <b>,</b>  |
|                    |  | _   |
| <b>12.</b>         |  |   |
| 333                |  |   |
| <u> </u>           |  |   |
|                    |  |   |
| 7.                 |  |   |
|                    |  |   |
|                    |  |   |
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| •                  |  |   |
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|                    |  |   |
|                    |  | 198   |
|                    |  |   |
|                    |  |   |
|                    |  |   |

## END NOTES

#### APPENDIX B

1XIX. A. K. Studie fuer Korpsbefehl Nr. 1 "Fuer den "Fall Gelb", dated 28. 3. 40.

<sup>2</sup>Aniage 1 zu Gruppe von Kleist, le/op Nr. 217/40 g. Kdos. Chefs. vom 21. 3. 40. (Neueuffessung) vom 3. 5. 40. "Besondere Anordnungen fuer die Straßenzuteilung, Marsch und Yerkehrsregelung (zum "Befehl fuer den Durschbruch bis zur Mees").

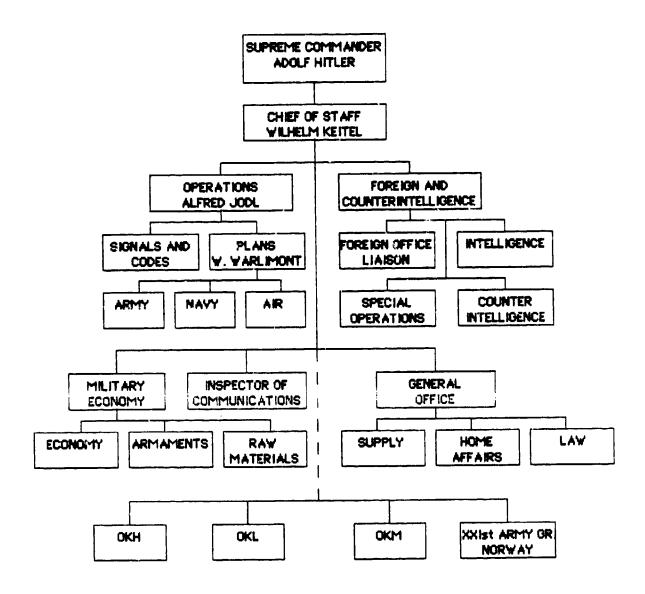
3A Nebelwerfer Regiment is a Smoke Regiment.

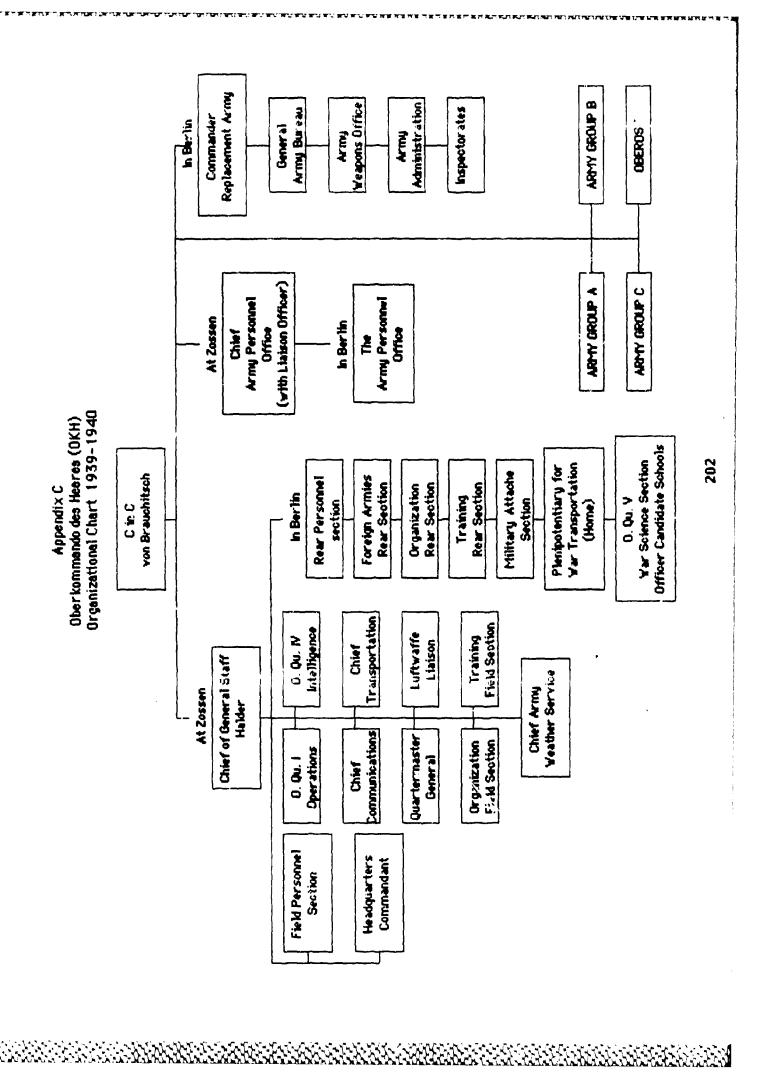
4Anlage 1 zu Gruppe von Kleist, la/op Nr. 217/40 g. Kdos. Chefs. vom 21. 3. 40. (Neueuffessung) vom 3. 5. 40. "Besondere Anordnungen fuer die Straßenzuteilung, Marsch und Verkehrsragelung (zum "Befehl fuer den Durschbruch bis zur Mass").

51bid., "Bewegungsuebersicht füer Gelb"

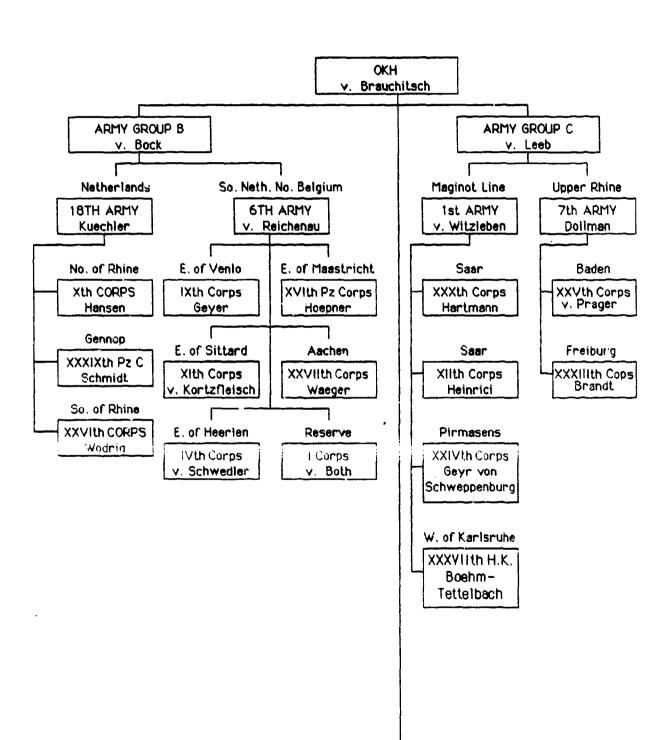
APPENDIX C

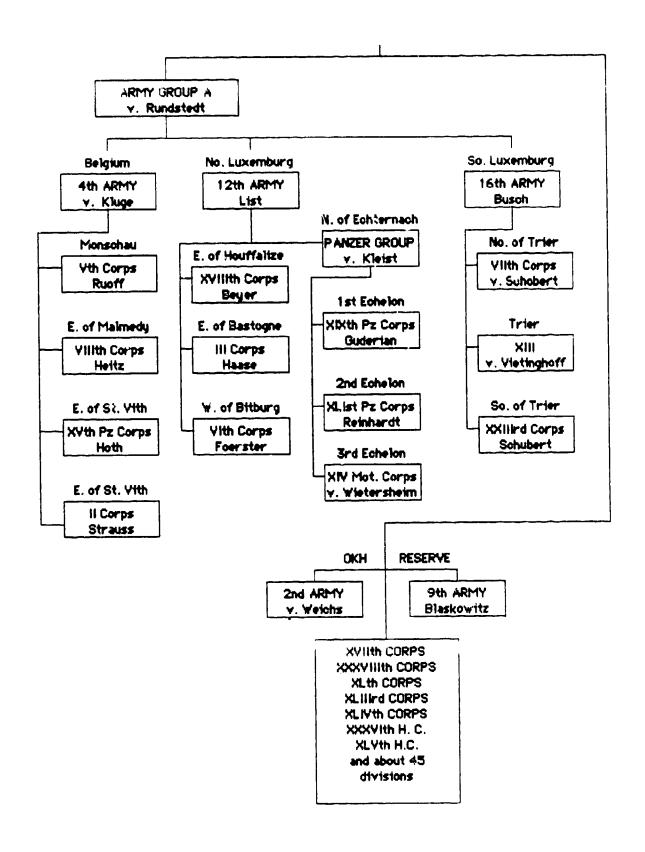
Appendix C
Oberkommendo der Wehrmecht (OKW)
Organizatione/ Chart: May 1940





Appendic C
Oberkommando des Heeres (OKH)
Order of Battle for the Battle of France: May 1940





### END NOTES APPENDIX C

Taylor, *The Merch of Conquest,* p. 420; and Warlimont, *Inside Hitler's Headquarters,* p.

2The Commender in Chief of the Army planned to personally lead the Army in time of war. In order to do this, he streamlined the Army High Command, and reduced some of his daily burdons. You Brauchitsch split the organization of OKH, taking only the Army Chief of Staff and necessary operational elements to Zossen. He appointed a Commender of the Replacement Army to deal with all other duties. This was, however, dependent on a short war scenario. As indicated on the chart, you Brauchitsch did maintain a nominal crew in Berlin. Burkhart Mueller-Hillebrand, Des Hear 1933-1945 Entwicklung des organisatorischen Aufbeuss Vol. I, Des Hear bis zum Kriegsbeginn (Dermstadt: Verlag von E. S. Mittler & Sohn GmbH., 1954), pp. 116-119 and 177-178; clso, for a detailed explanation of each section or office within the General Staff et Zossen, in Berlin, and the Replacement Army, see Mueller-Hillebrand's Des Hear Volume I. OB Ost stands for Oberbefehlsheber Ost (Commender in Chief East).

3In this representation armies and corps are placed from left to right and top to bottom, generally corresponding to their actual locations from west to east on May 10, 1940. Seventh Army is strictly north to south. The geographic areas above the armies are target areas, whereas the geographic areas above the corps are deployment areas. Taylor, op cit, pp. 429-431.

APPENDIX D

### APPENDIX D COMPARISON OF RANKS

| GERMAN ARMY/  | U.S. ARMY           | AS USED IN THIS THESIS                              |
|---|---------------------|---|
| LUFTWAFFE   |                     |   |
| Generalfeldmerschell                                  | General of the Army | Field Marshel                                       |
| Generaloberst   | General             | Colonel-General                                     |
| General (der Inf, etc.)<br>General (der Flieger, etc) | Lt. General         | General (of the inf, etc.) General (of Fliers, etc) |
| Generalleutnent                                       | Major Gameral       | Major-General                                       |
| Generalmajor  | Brig. General       | Brigadier-General                                   |
| Oberst  | Colonel             | Colonel   |
| Oberstleutnent  | Lt. Colonel         | Lieutenent-Colonel                                  |
| Major   | Major               | Major   |
| Hauptmann<br>Rittmeister                              | Captain             | Captain   |
| Oberleutnent  | Lieutenent          | Lieutenant  |
| Leutnant  | Second Lieutenant   | Second Lieutenant                                   |

APPENDIX E

### APPENDIX E

### GERMAN GENERAL STAFF POSITIONS

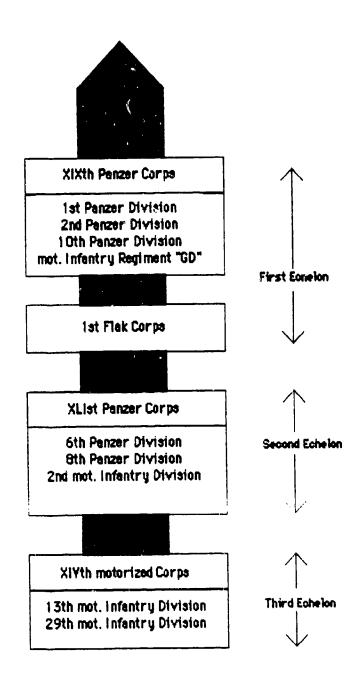
| la        | Operations Officer. Corresponds to G-3 in the U.S. Army. Since at divison level no chief of staff existed, the la also fulfilled those duties.   |
|-----------|--|
| lb        | Logistic officer. Corresponds to G-4 in the U.S. Army.   |
| lc        | Intelligence officer. Corresponds to G-2 in the U.S. Army.   |
| lla       | Personnel officer (officers).  |
| O. Qu i   | Oberquertiermeister I. First General Staff officer responsible for operations (including the operations section).  |
| 0. Qu 11  | Oberquart/ermeister II. Second General Staff officer responsible for training.   |
| O. Qu III | Oberquartiermeister III. Third General Staff officer responsible for organization.   |
| C. Qu IY  | Oberquertiermeister IY. Fourth General Staff officer responsible for operational Intelligence, including foreign armies east and west.   |
| O. Qu Y   | Fifth General Staff officer responsible for military history.  |
| Gen Qu    | General quartier meister. Chief Logistic and Administration officer on the Army General Staff (DKH). The Gen Qu had two main sections under his control, Logistics, and Military Administration of Occupied Territories. |

Note: Staff positions designated Oberquartiermeister are Army level and above. Generalquartiermeister is only found at Army General Staff.

Dupuy, The Helder Cieries, p. iii.

APPENDIX F

APPENDIX F
PANZER GROUP YOU KLEIST ECHELONMENT



Dech, Fenzer durchbrechen eine Armeestellung, Nr. 2, p. 61.

APPENDIX G

### APPENDIX G

### **ENGINEER OPERATIONS**

Panzer Group von Kleist negotiated some of Europe's most restrictive terrain, and conducted six major river crossings in the initial five days of the Battle of France. Engineers played a key role in the successful effort of these operations, and their employment, especially with limited bridging assets, required detailed planning and close husbanding of resources. You Kleist's staff and XIXth Panzer Corps conducted several war games incorporating engineer operations, to determine the number required, and their most effective use. As a result of these war games the Panzer Group established the following priorities for engineer tasks:

- Breach or cross the undefended obstacles along the German-Luxembourg border, and he Our and Saur border streams.
- 2. Clear obstacles in Luxembourg, and support the assault and breaching of the first Belgian defensive line.
- 3. Clear roads, minefields, and support the assault and breaching of the second Belgian defensive line. Construct assault bridges as required.
  - 4. Support the crossing of the Semois River. Construct assault bridges as required.
  - 5. Support the crossing of the Meuse River. Construct assault bridges as required.

To complete the multitude of engineer missions, Panzer Group von Kleist procurred additional engineer units to reinforce the normal divisional and corps assets. The following units were placed under operational control of Panzer Group von Kleist for the breakthrough operation to and including the Meuse River:

one regimental engineer headquarters for planning and coordination

three engineer battalions

one assault engineer battalion

three type B bridge columns.

Each engineer battalion organically had one type B bridge column and one type K1 column. The 12th and 16th Armies engineers were responsible for clearing obstacles at the Our and Saur Rivers, relieving the Penzer Group's engineers for bridging missions in Selgium and France. 2

Motorized engineers of 1939 were capable of performing a variety of missions, and had some fairly advanced equipment for their time. Being fully motorized, they were integrated well forward in the armor columns, and were thus able to respond quickly. Additionally, engineers were always included when forming forward detechments and advance guards. The advance through the Ardennes depended on mobility, and engineers were trained and equipped accordingly. The three regular engineer companies' equipment included nine large (trailer mounted) air compressors, 20 power saws, six welding sets, nine flame throwers, 10 searchlights for night operations, and a variety of exes, picks, hand saws, shovels, etc. As berrier materials the engineers carried 379 rolls of barbed wire, 121 rolls of regular wire, and 1,550 sandbags. The engineer bettalion also carried 1,140 anti tank mines, 1,934 anti personnel mines, and an essortment of explosive materials. The most important pieces of equipment, however, were the B and K type bridges.

The type B bridge, developed in 1934, consisted of heavy pontoon and tressle bridge equipment:

- 16 half pontoons (8 full pontoons)
- 8 piles

- 2 ramps
- 8 stills
- 8 crossing rails (16 ton capacity)
- 6 storm boats
- 1 motor boat
- 20 small pneumatic boats
- 24 large pneumatic boats

This equipment could be constructed to span short gaps (3.9 meters) or long gaps (32 meters). Under normal conditions, a 32 meter 16 ton pontoon bridge required about eight hours

to construct. The equipment was extremely versatile, and could be used to not only construct bridges, but also ferries. German doctrine called for getting essential combat power across a water obstacle first, then to worry about constructing a bridge. Thus the use of ferries was an essential part of any bridging operation.4

The type K bridge, available only in small numbers in the spring of 1940, was a small box girder bridge with a maximum carrying capacity of 16 tons. Unlike the type B bridge, the type K was less versatile, however, could cover spans twice the length (76 meters). The desired bridging mix in the engineer battalion was one of each type bridge, but because of the limited number of type K bridges availabe in the spring of 1940, Panzer Group von Kleist was one of the only units with type K bridging columns.5

Detailed reconnaissance provided the Penzer Group with the necessary information to plan its engineer assets accordingly. Close liaison with Yith and Yith Corps, through which Penzer Group von Kleist passed on D-Day, ensured the speedy removal or bridging of obstacles at the German - Luxembourg border. Seven bridges were required for the Penzer Group's sector on the morning of 10 May, and all were completed within two hours. Once across the initial obstacles, XiXth Penzer Corps became responsible for all other bridging within the group's sector to the Meuse River. The Penzer Group provided Guderian with an additional engineer battalion, and three type B bridging companies to carry out its main missions. The assault engineer battalion, specially equipped to neutralize bunkers, was not employed until the Meuse River crossings. The Penzer Group, properly reinforced with engineer assets, was thus able to conduct its speedy advance in a minimum amount of time.6

### END NOTES

### **APPENDIX G**

<sup>1</sup>Regular infantry divisions were equipped with two type B bridges only. Type K bridges were found in Penzer and Motorized infantry divisions.

2Anlage 5 zu Gruppe von Kleist la/op. 217/40 g. Kdos.-Chefs., vom 21. 3. 40., Besondere Anordnungen fuer des Ueberwinden der Befestigungen, Sperrungen u. Fluesse im Yormarschstreifen.

<sup>3</sup>Buchner, *Des Hendbuch der Deutschen Infanterie 1939-1945,* pp. 60-66.

The personnel in the type B and K bridge columns were only equipment caretakers and transporters. Bridges or ferries were constructed and operated with personnel from the three engineer companies within the battalion. Thus, during bridge construction, engineers were in short supply for other missions. This is the primary reason why the German Army trained infantrymen in routine engineers tasks. By having infantrymen trained as engineers, personnel for both routine and technical missions were always available. Type B bridge characteristics and capabilities are as follows:

### Pontoon bridges

| 4 tons     | 8 tons    | 16 tons   |
|------------|-----------|-----------|
| 130 meters | 80 meters | 50 meters |

### Number of Tressle bridges over gaps of:

| 3.9 met | ter spen | 6.4 met | ter span | 19 me | ter soan | 32 met | r span |
|---------|----------|---------|----------|-------|----------|--------|--------|
| 8 ton   | 16 ton   | 9 ton   | 16 ton   | 8 ton | 16 ton   | 8 ton  | 16 ton |
| 21*     | 9        | 13      | 7        | 2     | 2        | 1      | 1      |

### <u>Ferries</u>

| 4 ton Ferry | 8 ton Ferry | 16 ton Ferry |
|-------------|-------------|--------------|
| 8           | 4           | 2            |

<sup>\*</sup>number of spans a type B bridge column supported. Buchner, op cit., pp. 60-66; and Oberkommando des Heeres (OKH), Handbuch fuer den Generalstabsdienst im Kriege, Yol. 2, H. Dv. g. 92 (Berlin: Gedruckt in der Reichsdruckerei, 1939), pp. 218-219.

5The following are the type K bridge capabilities:

<u>Bridges</u> Geps 72 meter span 37 meter span 9 meter span 18 meter span <u>16 ton</u> 8 ton 16 ton <u>16 tan</u> 16 ton 8 ton 8 ton 8 ton 8\* **Ferries** 16 ton Ferry 2 8 ton Ferry

<sup>\*</sup>The number of spans a type K bridge column supported. OKH, op cit., pp. 222-223.

APPENDIX H

### APPENDIX H

### FORCE EXPANSION

in September 1939 General Halder had five Panzer divisions at his disposal, totalling 3195 tanks of all types. The majority of these (2674) were obsolete Mark I and II tanks. The Army lacked, in any great number, the more modern Mark III and IY. Production capacity for the Mark III and IV still fell well below 200 a month during the '39-'40 winter and spring period. Reorganizing the existing Panzer divisions through force structure changes, OKH was able to increase the overall tank force. It reduced the number of tanks in the existing divisions from 324 to 300, lowered the number of tank bettalions in newly formed Panzer divisions from four to three (in one case to two), and used the separate Panzer brigades, to fill the new Panzer divisions. (see Table five). OKH doubled the Panzer divisions by April 1940, but severely limited the rest of the Army's mobility. Industry only increased the total production of Mark III and IY tanks from 525 in September '39 to 850 in May '40, thus confiscated Czechoslovakian 35t and 38t tanks and captured Polish equipment had to be used to bolster the German inventory to 3381 tanks of all types on April 1, 1940. Polish captured equipment also became a source for Germany's foreign military sales program and a way to pay for raw materials received from the USSR and Rumania. The foreign equipment also provided an additional headache for the armaments industry, because it had to retool machinery to produce spare parts. During April and early May the army scrapped about 807 Mark I, II, 35t, and 38t tanks. Additionally, wheeled assets required for motorized infantry brigades in new Panzer divisions were taken from existing regular infantry divisions.1

Transporatation assets also provided a dim picture in the spring of 1940. The army only possessed 120,000 trucks of all types to haul troops, material, and pull equipment and weapons. The monthly allocation for new vehicles to the Army totalled less than one percent: 1000 vehicles.

This did not even cover normal losses, let alone losses in upcoming combet operations. In the area of specialized vehicles, an acute shortage existed. The reason for these problems were two fold, one, Germany suffered under a severe shortage of steel and rubber, second, the large number of different models in production precluded sufficient quantities of one type from being produced. Yehicle shortages in regular infantry and artillery units had to be replaced by horses. This incidentally remained a problem throughout the war. Consequently no tank reserve existed for the offensive in the West. Overall the army found itself in a situation of being less mobile in May 1940 than in September 1939. Table Four provides an overview of the total number of tanks available from September 1939 to May 1940. Table Five gives a perspective of the number of divisions and their organizations with respect to tank/infentry ratios on May 10, 1940. Table Six provides information on ermaments.2

Table Four<sup>3</sup>
Armored Vehicle Status

| Tank Tupe                       | 1, 9, 39   | 1.4.40                | 10, 5, 40         |
|---------------------------------|------------|-----------------------|-------------------|
| 1                               | 1445       | 1062**                | 523               |
| 11                              | 1226       | 1086**                | 955               |
| III<br>35 <del>1*</del><br>38t* | 98<br>     | 329<br>143**<br>238** | 349<br>106<br>228 |
| IY<br>Cmd***                    | 211<br>215 | 280<br>243            | 278<br>135        |
| Totai                           | 3195       | 3381                  | 2574              |

<sup>\* 35</sup>t and 38t model tanks were confiscated in Czechoslovakia and incorporated into the German Panzer divisions. They were used instead of Mark III's (35t's in the 6th Pz. Div. and 38t's in the 7th and 8th Pz. Div.).

<sup>\*\*</sup> Indicates those models scheduled for scrapping during April and May 1940 because of age.

### \*\*\* Command tanks.

Table Five4 May 1940

| Number of<br>Divisions | Division<br>Number | Number of<br>Tank Battalions | Number of<br>Motorized Infantry<br>Bettalions |
|------------------------|--------------------|------------------------------|---|
|                        |                    |                              |   |
| 6                      | ist-5th, 10th      | 4                            | 4   |
| 2                      | 6th, 8th           | 3                            | 4   |
| 1                      | 7th                | 3                            | 5   |
| 1                      | 9th                | 2                            | 5   |

A four tank battalion Panzer division fielded 300 tanks; a three tank battalion Panzer division 216 tanks; a two tank battalion Panzer division 150 tanks. This prime reason for the variety of organizations was because these units were not designed under a standard Table of Oraganization and Equipment. New Panzer divisions were hurridly assembled by taking equipment from the original Panzer divisions, the Light divisions, elements of motorized infantry divisions, regular infantry divisions, and existing OKH Panzer brigades.

<u>Table Six</u>5 <u>Armaments</u>

| Iuge | <u>Main Armament</u> |  |
|------|----------------------|--|
| 1    | Machine gun          |  |
| 11   | 2.0 cm mein gun      |  |
| 111  | 3.7 cm main gun      |  |
| IY   | 7.5 cm metn gun      |  |
|      | 3.7 cm main gun      |  |
| 38t  | 3.7 cm main gun      |  |

<sup>1</sup> Mueller-Hillebrand, Das Heer, pp. 40-42.

<sup>21</sup>bid., p. 42.

<sup>31</sup>bid., pp. 106 and 141.

<sup>41</sup>bld., p. 141.

<sup>51</sup>bid., p. 141.

APPENDIX I

## Appendix I

Tables of Organization and Equipment (TOE)

# Panzer Division of May 1940

### Type Unit

## Equipment

## Panzer Troops:

# one Penzer brigade headquarters two Panzer regiments (each consisting of:) two Panzer battalions (each consisting of:) command group one headquarters company two light tank companies one medium tank company one transportation company

# one maintenance company

## 6th and 8th Panzer Divisions one Panzer regiment headquarters three Panzer battalions

The division's tenk force consisted of Mark I's, III's, and IV's, however mainly of III's and IV's. Total number of tanks: 300

## Mark III's

Mark I, II, and III's
Mark IV's
1 1/2 ton all terrain vehicles, 2 1-1/2 ton trucks, 15 3 ton trucks
4 motorcycles (2 with side car)

4 1/2 ton all terrain vehicles, 10 1-1/2 ton trucks, 16 3 ton trucks, 10 double axle trailers, and 3 single axle trailers.

some as above, except that the number of tanks were reduced to 210 per division.

## Infantry Troops:

1st and 2nd Panzer Divisions:
one infantry brigade staff
one infantry regiment (mot) (consisting of:)
three battalions of:
three rifle companies (each with:)

one machine gun company

one heavy company one light transportation company (mot)

# 6th and 8th Panzer Divsions

one infantry brigade staff
one infantry regiment (mot) (consisting of:)
three battalions of:
three rifle companies (each with:)
one heavy company
one infantry gun company

## 1 Oth Panzer Division:

one brigade staff
two regiment (each consisting of:)
two battalions of:
three rifle companies (each with:)
one heavy company
one motorcycle platoon
one infantry gun company
one anti tank company
one light transportation company (mot)

9 light machine guns, 2 heavy machine gune, 3 light morters (5 cm)

8 heavvy machine guns, 6 medium mortars (8 cm)

2 light infantry guns (7.5 cm), 3 3.7 cm anti tank guns 1 1/2 ton all terrain vehicle, 1 1/2 ton troop transporter, 4 motorcycles (1 vith side car), 16 1-1/2 ton trucks

18 light machine guns, 2 heavy machine guns, 3 light mortars 8 heavy machine guns, 6 medium mortars, 3–3.7 cm anti tank guns 8 light infantry guns (7.5 cm)

9 light machine guns, 2 beavy machine guns, 3 light mortars 8 leavy machine guns, 6 medium mortars 24 motorcycles (9 with side car), 3 light machine guns 8 light infantry guns (7.5 cm) 12.3.7 cm anti tank guns same as above

| Reconnaissance Squadron: 1st, 2nd, 6th, 8th, and 10th Panzer Divisions | 3 1/2 ton troop transp             |
|--|------------------------------------|
| 1st, 2nd, 6th,   | s (each with)                      |
| Reconnaissance Squadron:   | two armored car troops (each with) |

vehicles, 14 motorcycles (8 vith side car), 25 light machine guns, 10 3 1/2 ton troop transporters, 8 1-1/2 ton trucks, 10 armored scoul

3.7 cm anti tank guns

56 motorcycles (46 with side car), 9 1/2 troop transporters, 6 1-1/2 ton trucks, 9 light mechine guns, 2 heavy mechine guns, 3 light morters

3 1/2 ton trucks, 6:1-1/2 ton trucks, 3 light machine guns

3 5.7 cm anti tank guns

2 light infantry guns (7.5 cm)

one type B engineer bridge platoon

one infantry gun platoon

one anti tank platoon one engineer platoon

one heavy troop (mot)

one motorcycle troop

same as above

one light transportation company (mot)

Motorcycle Reconneissance Battelion: 1st, 2nd, 6th, and 8th Panzer Divisions

56 motorcycles (46 with side cars) 9 light machine guns, 2 heavy two motorcycle companies (each with)

machine guns, 3 light mortars same as above

one heavy motorcycle company

one heavy company (mot)

6 medium mortars, 8 heavy machine guns, 10 1/2 ton trucks, 15 1-1/2 ton trucks, 44 motorcycles (38 with side cars)

Artillery:

one artillery regiment (mot) one observation platoon one meteorological section one printing section

two light artillery battalions (each consisting of:) three batteries (with) one regimental band

6 1/2 ton all terrain vehicles, 1 1/2 troop transporter, 2 1-1/2 ton

3 ton truck

1/2 ton all terrain vehicle, 1 1-1/2 ton truck, 1 3 ton truck

4 light 105mm howitzers, 2 light machine guns, 4 1/2 ton all terrain

one signal platoon

one survey section

three anti tank companies (each with) 1st, 2nd, and 10th Panzer Divisions one signal platoon Anti Tank Battalion:

only two enti tank companies, rest the same 6th and 8th Panzer Divisions

two engineer companies (mot) (each with) Engineer Battalion (mot):

one bridge company (type B) (heavy puntoon one angineer company (mech) and tressle equipment) one bridge company (type K) (fixed bridge, small one angineer transportation company box girder)

vehicles, 6 1/2 troop transporters, 13 1-1/2 ton all terrain trucks, 1 1/2 ton all terrain vehicle, 1 1-1/2 ton truck, 2 motorcycles 4 1/2 ton all terrain vehicles, 5 1/2 ton troops transporters, 2 6 3 ton trucks, 4 double axle trailers, 4 single axle trailers, i 1 motorcycles (2 with side cars) 1-1/2 ton trucks, 1 3 ton truck

6 light machine guns, 12 3.7mm anti tank guns same as above

compressors, 20 pover savs, 6 velding sets, 9 flame throwers, 10 6 1/2 ton trucks, 2 1-1/2 ton trucks, 13 3 ton trucks, 12 motorcycles (7 with side cars) 9 large (trailer mounted) air 35 light machine guns search lights

pneumatic boats\*, 12 2 ton pneumatic boat ferries, 6 4 ton pneumatic boat ferries, steel rails and wooden planks for road surface, 2 light 16 half pontoons, 24 large pneumatic boats\*, 48 small machine guns 18 assorted 1/2 ton, 1-1/2 tone, and 3 ton trucks, 2 light machine guns

sused to transport troops, and to construct ferries.

# Signal Battalion (divisional):

one radio company

one field : ephone company

6 submachine guns, 2 light machine guns, 38 assorted wheeled vehicles,

6 armored half tracks, 13 motorcycles (1 with side car) 4 1-1/2 ton trucks, 7 3 ton trucks, 1 single axle trailer,

2 motorcycles (1 with side car)

12 20mm anti aircraft guns

wheeled vehicles, 21 armored half tracks, 13 motorcycles (1 with side

21 submachine guns, 13 light machine guns, 23 assorted

one light signal transportation company

eries (each with) Flak Battalica three Flak

### Logistics:

# Supply Battalion Commander and Stair (divisional) with:

(30 ton capacity per platoon)(each with) seven small transportation companies

(13,000 gallon capacity per platoon) (each with) three large fuel tanker companies

one supply company

two maintenance companies (each with)

## one bakery company Administrative service:

one commissary office one butcher company

3 motorcycles (2 with side car), 1 1/2 ton all terrain vehicle, 1 1-1/2 ton truck, 10 4.5 ton trucks

1/2 ton all terrain vehicle, 2 1-1/2 ton trucks,

7 motorcycles (6 with side cars), 1 1/2 ton truck, 2 1-1/2 ton 20 4.5 ton trucks, 3 motorcycles (2 with side cars)

trucks, 12 3 ton trucks

40 medium half track prime movers, 4 medium fully tracked prime movers, 44 double axle trailers, 23 assorted wheeled trucks 19 assorted wheeled vehicles, 5 mobile bakeries, 6 motorcycles (2 with side car)

7 assorted wheeled vehicles, 2 motorcycles (1 with side car) 4 assorted wheeled vehicles, 1 motorcycle

## Medical services:

two medical companies (each with) three ambulance paltoons

## Military Police:

one miltary police section

## Postal services:

one field post office

## Division headquarters:

one motorcycle platoon map section (divisional) machine gun section

19 assorted wheeled vehicles, 4 motorcycles (3 with side car) 18 1-11/2 ton ambulances, 4 motorcycles with side cars

7 1/2 ton all terrain vehicles, 8 motorcycles (2 with side cer)

# 3 assorted wheeled vehicles

24 motorcycles (9 with side cars), 3 light machine guns

1 1-1/2 ton truck, 1 motorcycle

2 heavy machine guns<sup>1</sup>

# Infantry Division (motorized) of May 1940

## Type Unit

## Equipment

## Infantry Troops:

two infantry regiments (mot)(each with)
one signal platoon
one regimental band
three battalions (each with)
three rifle companies (each with)

# one machine gun company

one motorcycle platoon one infantry gun company one anti tank company one light transportation company (mot)

# Roconnaissance Battalion:

one motorcycle troop one armored car troop

## Artilleru:

one artillery regiment (mot) consisting of:
one signal platoon
one regimental band
two light battalion (each with)
one signal platoon

one survey section three batteries (each with) one heavy battery

6 1/2 ton trucks, 5 1-1/2 ton trucks, 1 3 ton truck

9 light machine guns, 2 hasvy machine guns, 3 light mortars, 13 1-1/2 ton troop transporter, 4/1 ton trucks, 3/1/2 ton all terrain vehicles

8 heavy machine guns, 6 medium mortars, 11 1–1/2 ton troop transporters, 4 1 ton trucks, 10 1/2 ton all terrain vehicles see Panzer division

B light infantry guns (7.5 cm), light half track as prime mover for guns 12–3.5 cm anti tank guns, light half track as prime mover for guns see Panzer division (infantry troops)

see Panzer division see Panzer division 6 1/2 ton trucks, 5 1-1/2 ton trucks, 1 3 ton truck

4 1/2 ton all terrain vehicles, 5 1/2 ton troops transporters, 2

1 - 1/2 ton trucks, 1-3 ton truck

1 1/2 son all terrain vehicle, 1 1-1/2 ton truck, 2 motorcycles

4 105mm howitzers

4 150mm howitzers

one observation bettalion (consisting of:) one signal platoon

one meteorological section one printing section one survey battery one sound ranging battery

one flash ranging battery

## Anti Tank battalion:

two anti tank companies (each with)

## Engineer Battalion:

three engineer companies (each with) one engineer transportation company one bridging company (type B)

## Flak Battalion (mot)

three Flak batteries (each with)

# <u>Signaî Battalion (divisional):</u>

one radio company

one fiel telephone company

one light signal transportation company

4 1/2 ton all terrain vehicles, 5 1/2 ton troops transporters, 1 3 ton

3 1/2 ton truck, 2 1-1/2 ton trucks

1 1/2 ton truck, 1 1-1/2 ton truck, 1 3 ton truck

33 assorted wheeled vehicles, 4 motorcycles (1 with side car), 2 light mechine guns

33 assorted wheeled vehicles, 4 motorcyclos (1 with side car), 2 light machine guns

53 assorted wheeled vehicles, 4 motorcycles (1 with side car), 2 light machine guns

12. 3.5cm anti tank guns, half tracks as prime mover of guns

see Panzer Division see Panzer Division see Panzer Division 12 20mm anti aircraft guns

21 submachine guns, 23 assorted wheeled vehicles, 21 armored half tracks, 13 motorcycles (1 with side car)

6 armored half tracks,13 motorcycles(1 with side car) 6 submachine guns, 38 assorted wheeled vehicles,

4 1-1/2 ton trucks, 7 3 ton trucks, 1 single axle trailer,

2 motorcycles (1 with side car)

### Logistics:

# Supply battalion commander and staff (divisional): six small transportation companies (30 ton capacity per platoon)(escn with)

two large fuel tanker companies (13,000 gallon capacity per platuon) (each with)

one supply company

two maintenance companies (each with)

## Administrative service: one bakery company

one butcher company

one commissary office

## Medical services:

two medical companies (each with) three ambulance paltoons one field hospital

## Militery Police:

one miltary police section

## Postal services:

one field post office

3 motorcycles (2 with side car), 1 1/2 ton all terrain vehicle, 1 1-1/2 ton truck, 10 4.5 ton trucks

1 1/2 ton all terrain vehicle, 2 1-1/2 ton trucks,
20 4.5 ton trucks, 3 motorcycles (2 with side cars)
7 motorcycles (6 with side cars), 1 1/2 ton truck, 2 1-1/2 ton trucks, 12 3 ton trucks
40 medium half track prime movers, 4 medium fully tracked prime movers, 44 double axle trailers, 23 assorted wheeled trucks

19 assorted wheeled vehicles, 5 mobile bakeries, 6 motorcycles (2 with side car)
7 assorted wheeled vehicles, 2 motorcycles (1 with side car)
4 assorted wheeled vehicles, 1 motorcycle

19 assorted wheeled vehicles, 4 motorcycles (3 with side car)
18 1-11/2 ton ambulances, 4 motorcycles with side cars
14 assorted wheeled vehicles, 2 motorcycles with side, plus specialized equipment and tentage

7 1/2 ton all terrain vehicles, 8 motorcycles (2 with side car)

3 assorted wheeled vehicles

# Division headquarters:

one motorcycle platoon map section (divisional) machine gun section

same as Panzer Division headquarters 1 1-1/2 ton truck, 1 motorcycle 2 heavy machine guns<sup>2</sup>

# Infentry Company (motorized).

### **Type Unit**

### two machine gun section (each with) one headquarters section Headquarters platoon supply section

## three rifle squads (each with) Three rifle platoons (each with) one platoon headquarters

one mortar section

## Equipment

- 3 1-1/2 ton trucks (ammunition, food stores, fuel) 1 1/2 ton all terrain vehicle
  - 1 heavy machine gun
- 1 squed leader (submachine gun), three man machine gun section (1 light ammunnition bearer a 7.92 mm rifle), six infantry men (armed with mechine gun, gunner and assistant gunner carried 9mm pistols, 7.92mm rifle), 1 1-1/2 ton troop transporter 1-1/2 ton troop transporter
  - 3 men, 1 50mm morter, 1 1-1/2 ton troop transporter3

# Infantry Regiment "Grossdeutschland" (motorized)

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## Equipment

# Regimental headquarters and staff

same as moterized infantry regiment of a motorized infantry division three battalions (each vith)

three rifle companie (each vith)

one machine gun company

one heavy battalion one metorcycle platoon one anti tank company two heavy infantry gun companies (each with)

one assault gun battery one small transportation company (30 tons)

12 light machine guns, 3 light mortars 8 keavy machine guns, 6 medium mortars, 10 1/2 trucks, 4 1-1/2 ton trucks, 11 3 ton trucks, 9 motorcycles (5 vith side car)

see Panzer division
12. 3.5 cm anti tank guns, half trecks as prime movers for guns
one company with 4 and one with 6 heavy infantry guns (15 cm), half
track as prime mover of guns
6 assault guns

see Panzer division(logistics)4

# Standard Corns Headquarters (motorized)

Equipment

### **Type Unit**

## Coprs Headquarters:

one motorcycle messenger platoon two light machine gun sections one corps map section (mot)

## Corps Troops

## one engineer battalion Engineers:

one engineer transportation company two bridging companies (type B) one bridging company (type K) three engineer companies

one light signal transportation company (mot) one field telephone company (mot) one riedio company (mot) one signal battalion (corns)

## Rear Services:

one large fuel tanker comapny (13,000 gallons) two small transportation companies ( 50 ton) one supply battalion commander and staff one maintenance company

## Military Police:

one miltary police section

one field post office Postal Services:

## light machine gun

1 1/2 ton all terrain vehicle, 2 1-1/2 ton trucks, 38 motorcycles 1/2 ton truck, 1-1/2 ton truck, special equipment

## see Panzer division

see Panzer division see Panzer division see Panzer division

40 essorted whooled vehicles, 13 motorcycles (1 with side car) 31 essorted whooled vehicles, 11 motorcycles (1 with side car) 1 1/2 ton half track, 14 1-1/2 ton trucks, 7 3 ton trucks

## see Panzer division see Panzer division

see Panzer division

see Panzer division

see Panzer division<sup>5</sup>

## Flak Corps (Luftwaffe)

### Type Unit

## Headquarters:

Corps staff

### Flak Units:

three Flak regiments (consisting of:) three heavy Flak battalions (each viti.) three heavy batteries (each vith)

two medium batteries (each with)
one searchlight battery
one light Flak battelion (consisting of.)
two heavy Flak battalions
one signal regiment (consisting of:)
two signal battalions (each with)
one corps support element

## Eguipment

unknown

4 88mm Flak guns, 6 3.7cm flak guns, 3 20mm flak guns, 3 search lights (60mm), 3 searchlights (150mm), 5 sound locating devices 9 3.7 cm flak guns, 4 searchlights (60mm) 9 searchlights (150 mm), 9 sound locating devices

12 20mm Flak guns same as above similar to Panzer division signal battalion similar to standard motorized corps<sup>6</sup>

## END NOTES

## APPENDIX !

1 Mueller - Hillebrandt, Das Mer 1933-1945, pp. 141-144; Dach, Die 1. Fanzer Division, p. 630; and OKH, Hanzbuch Hurr den Generalstadsdienst in Kriege, Yol. 2 (all chapters of the book apply).

2 Nueller-Hillebrandt, apcit., pp. 139-141; OKH, opcit.

3Dach, Pazzer durchbracken sine Armeastellung, Mr. 2, p. 62; and OKH, op cit., p. 82.

4Mueller-Hillsbrandt, op cit., p. 148; and OKH, op cit.

50KH, op cit, p 34.

6Tessin, becoming and Truppen der Leutschen Wehrmschi und Wälfen-Sim Zweiten Helikrieg, Vol. 2, pp. 15-16; and Dacis, op cit., p. 82.

APPENDIX J

### APPENDIX J

# Clese Air Support

The German Army General Staff's intelligence section (*France Hear's Hear's* determined that Germany only possessed 7, 378 artillery pieces against the Allies' 13, 974. That corresponded to about a 50 percent gap. OKH relied on the more modern German artillery, and more importantly on its Luftwaffe to close and overcome this deficiency. Thus, Army and Luftwaffe coordination with respect to Close Air Support was essential. Colonel Nehring, during one of the XIXth Panzer Corps' war games shortly before the offensive, discovered the lack of common maps between the Army and the Luftwaffe, and a lengthy and inadequate Close Air Support request format. This caused the corps' chief of staff great alarm. Colonel Nehring chose the corps operations officer, Major Bayerlein, to solve the problem.

Mejor Beyerlein used a 1:25,000 scale map and overprinted it with 1 cm squares. To simplify a CAS request, he further overprinted a larger square over 8x8 1 cm squares, creating 196 large squares per map sheet (see sketch). The large squares were numbered from 1 to 196. The new call for Close Air Support consisted of five items:

- Large target square (1-196).
- 2. Small target square a-h, then 1-3.
- 3. When requesting CAS on small target area, provide location, identifying the quarter of the small square.
  - 4. Type and activity in target area.
  - 5. Time of observation and time CAS requested.

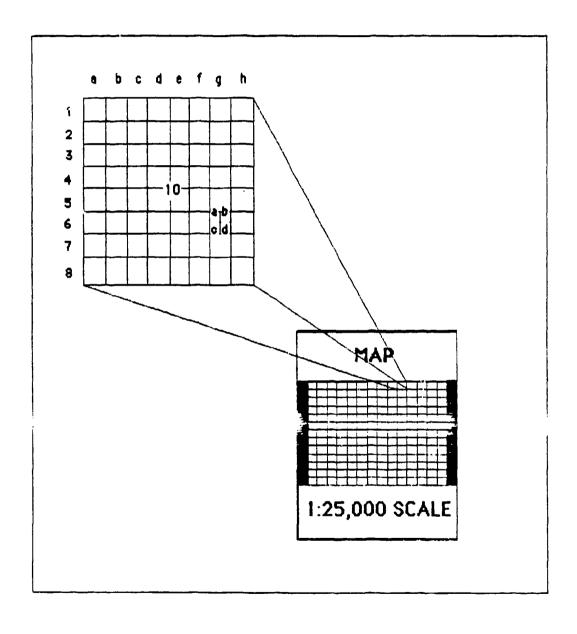
An example of a CAS request: Target area 10 g 6 a, artillery battery moving into position, 16:20, 17:30. This system ensured a common, quick solution to calling for close air support. A normal request went through division to the corps Close Air Support officer (Nahkampffuehrer (Naka)), a close resemblence to our Tactical Air Control Party. The Nakasent the report to the Luftwaffe Close Air Support element (Nahkampffuehrer /) of 2nd Air Corps (Fliegerkorps /). Second Air Corps was the Luftwaffe unit that provided direct support to XIXth

Panzer Corps.2

1Liss, Westfront 1939-1940, p. 126.

2General kommando XIX. A. K. Abt. Ia Nr. 306/40 g. Kdos. 0. U., den 17. 4. 40., Betr: Zieluebermittlung und Zielanweisung.

# Close Air Support Map



APPENDIX K

### APPENDIX K

### MEUSE RIVER CROSSING PLANNING INFORMATION

### XIXth Panzer Corps Attack Order

I. Panzer Group von Kleist will attack across the Meuse on 13 May in the Charleville-Sedan sector. It will be conducted with the extraordinarily heavy support of the Luftwaffe, which has now become free for committeent in Belgium. In a continuing eight hour attack, the Luftwaffe will destroy the enemy's Meuse defenses. The infantry attack will commence at 1600 hours and under all circumstance force a crossing of the Meuse River.

### II. Alma:

XIXth Penzer Corps will cross the Meuse at 1600 hours on 13 May on both sides of Sedan (between the Bar Stream and Bazeilles) and will form a bridgehead on the following line: Boutancourt-Sapogne-Chehery-Noyers-Pont Maugis.

### III. Orders

TOTALLE SOLGER SELECTION OF THE SOLET SOLET SELECTION S

# A. Right Attack Group:

Commander: Major-General Yeiel

Units: 2nd Panzer Division, one engineer battalion to assist in the river crossing, one assault engineer company for bunker reduction, and two light artillery battalions.

Command Post: Sugnu

Crossing Site: Between the mouth of the Baar Stream and the Iges Peninsula (exclusive).

Attack Frontage: Five kilometers

Mission: Commence the attack at 1600 hours and capture the heights south of Donchery and its lower woods. The division immediately turns to the West and process the Ardennes Canal prior to the Baar Stream and rolls up the Meuse defenses; right flank advances to Boutancourt, left flank to Sarpogne et Feucheres.

# B. Center Attack Group:

Commander: Brigadier-General Kirchner

Units: 1st Penzer Division, Infantry Regiment "GD" one engineer battalion for the river crossing, one assault engineer battalion (43rd) for bunker reduction, the corps'

reinforced artillery regiment, and the heavy artillery battalions from the 2nd and 10th

Penzer Divisions.

Command Post: St. Menges

Crossing Site: Between the iges Peninsula (inclusive) and Torcy (inclusive).

Attack Frontage: Six kilometers

Mission: Commence the attack at 1600 hours between Glaire and Torcy. Clear the Meuse curve and advance initially to the road Bellevue-Torcy. Then continue the attack to the

Bois de la Marfee heights and advance to the line Chehery-Chaumont.

# C. Left Attack Group:

Commander: Major-General Schael

Units: 10th Panzer Division, one engineer bettalion for the river crossing, one assault

engineer company for bunker reduction, and two light artillery battalions.

Commend Post: Giyonne

Crossing Site: Between Sedan (inclusive) and Bazeilles (inclusive).

Attack Frontage: Seven kilometers

Mission: No later than 1600 hours, in coordination with 1st Panzer Division, secure positions the east side of Sedan and simultaneously occupy the line of departure along the line Sedan-Bazetlles. At 1600 hours commence the attack across the Meuse, capture Wadslincourt, and secure the heights along the line Novers Pont Maugis-Pont Maugis.

### IY. Assault Troops:

- 1. Attack simultaneously with all three Panzer divisions on line. Attack will be late afternoon.
- 2. After a short artillery preparation the infantry will cross the Meuse on a narrow front and build a bridgehead. Crossing materials: pneumatic boats and assault boats.1
- 3. Install ferries and transport anti tank guns, during the daylight, in order to consolidate the bridgehead.
- A bridge will be constructed during the cover of darkness and tanks will be driven across.
- 5. On the following day the tanks will break out of the bridgehead in a westerly direction.

### Y. Luftwaffe:

- 1. The main body of 3rd Air Fleet (General Sperrle) will support the attack of the corps throughout 13 May (910 aircraft).
- 2. These will not be one single bombing attack, but rather the aircraft are to conduct support throughout the crossing. From 0800 hours until nightfall the Luftwaffe will provide a continuous attack to subdue the enemy artillery and stop traffic, isolating the battlefield.
- 3. On 14 May only limited air support can be expected, since the Luftwaffe will be required elsewhere. For air defense of the bridgehead, one fint aquadron (90 aircraft) will be available.

### VI. Flak:

- 1. Protection of the assembly areas of assault forces, and firing positions of supporting weapons have priority. Designated elements of Flak will be called forward to combat bunkers and ground positions.
- 2. Beginning 14 May the main effort will be the protection of the bridges, since they

undoubtedly will become the primary targets of the enemy.

# YII. Artillery:

- 1. Annex A: Fire Support Plan
- 2. In the second phase of the artilley preparation, the artillery will overlap the Luftweffe.
- 3. The artillery's main effort is with 1st Panzer Division.

# YIII. Cooperation with the Luftwaffe:

- 1. Artillery and Luftwaffe will fire according to time table in Annex B.
- 2. All Luftwaffe coordination will be conducted through 2nd Close Air Support Group.
- IX. Signal: omitted
- X. The corps Command Post will be located at Bellevaux, after 1200 at La Chapelle.

# Corps Troops

One reinforced artillery regiment
One heavy morter detechment (210 mm)
One Nebelwerfer (rocket projector) battalion
One assault engineer battalion
101st Flak Regiment (reinforced with one Flak battalion)2

# Corps Artillery Organization for the Meuse River Crossing

To support non-main effort divisional attacks
To support the main effort and counter battery fire
236 guns

Artillery assets were reorganized for the Meuse River crossing operation. The divisional support groups of 2nd and 10th Panzer Divisions consisted mainly of assets not taken from them. Maximum support was directed to 1st Panzer Division since it again became designated the main effort. Control of the artillery preparation was the responsibility of the Corps Artillery Commander (ARKO 101), Brigadier-General Wilhelm Berlin.<sup>3</sup> The artillery organization consisted of the following forces:

1st Panzer Division: Corps artillery commander (ARKO 101)

| fo combat infantry:     |                    |
|-------------------------|--------------------|
| 73rd Artillery Regiment | 24 105mm howitzers |
|                         | 12 150mm howitzers |
|                         | ·                  |

| For main effort and counter battery:          |                           |
|---|---------------------------|
| 49th Artillery Regiment (reinforced with)     | 24 105mm howitzers        |
| •   | 12 150mm howitzers        |
| 2nd Battalion/45th Artillery Regiment         | 12 150mm howitzers        |
| 2nd Battalion/69th Artillery Regiment         | 12 150mm howitzers        |
| 3rd Battalion/90th Artillery Regiment         | 8 105mm howitzers         |
| • •   | 4 100mm field guns        |
| 3rd Battalion/74th Artillery Regiment         | 8 105mm howitzers         |
| ,   | 4 100mm field guns        |
| 616th Heavy Artillery Battalion (separate)    | 8 210mm mortars           |
| one Nebelwerfer (rocket projectile) Battalion | 108 210mm rocket launcher |

1st Observation Battalion (reinforced by two artillery observation aircraft)

Total 236 lupes of artillery for 1st Panzer Division.

2nd Panzer Division:

74th Artillery Regiment (minus 3rd Battalion (heavy battalion))
24 105mm howitzers

10th Panzer Division:

90th Artillery Regiment (minus 3rd Battalion (heavy battalion))
24 105mm howitzers

The observation points for 2nd and 1st Panzer Divisions were required to set up at locations where they could also observe the 1st Panzer Division's sector. Likewise, one of each of the 2nd and 1st Panzer Divisions artillery battalions had to occupy firing points that would support the 1st Panzer Divisions sector if necessary.4

### Engineers

in the area west of Donchery, Sedan, Balan, and Bazeilles.

- A. 1. The technical control of the river crossing in 1st Panzer Division's sector of advance was provided by the staff of 511th Engineer Regiment (commander: Colonel Mueller), also designated the main effort of the attack.
  - 2. The technical control of the river crossing in 2nd Penzer Division's sector was provided by commander 38th Engineer Battalion (Major Wassung).
  - 3. The technical control of the river crossing in 10th Panzer division's sector was provided by commander 41st Engineer Battalion (Lieutenent-Colonel Wermuth).

# B. Available Engineer Units:

1. 1st Penzer Division 37th Engineer Battelion 505th Engineer Battelion

2. 2nd Penzer Mivision 38th Engineer Battalion 70th Engineer Battalion

3. 10th Panzer Division 49th Engineer Battalion 41st Engineer Battalion

The divisions were also tasked to employ all available infantry trained as assault engineers, in assault engineer roles.

## C. Available Equipment:

- 1. All pneumatic assault boats of bridging companies, including those that built bridges over the Semois, engineer battalions, and infantry assault engineers were made available to the Panzer divisions.
- 2. The 43rd Assault Engineer Battalion turned over nine Sturmboote (assault boats) to 1st Panzer Division for the crossing.
- Bridging equipment installed over the Samora was unavailable for the Meuse River crossings.
- D. XIXth Panzer Corps planned to establish a reserve of engineer assets.

Divisions were responsible for conducting reconnaissance well in advance of the river crossings. Crossing points and planned locations for bridges had to be reported to XIXth Panzer Corps. Building materials for emergency bridges, a unit responsibility, also had to be located prior to the commencement of the operation. Bridging companies shifting laterally along the Meuse River were given priority (after attack started) on the following roads: Vrigne aux Bois, St. Albert, St. Menges, and Fleigneux.5

# Annex A: 5st Panzer Division fire Support Plen

Crossing sits frontage: 2.5 kilometers

Attack frontags of the division: 5 kilometers

|  |            | 16   | engegement of bunkers?  |   |
|--|------------|--|---|---|
| Preparation for the<br>river crossing  | 0800-1500  | Engage targets of opportunity on far bank            | Engage bunkers along the river bank and in the villages of Glaire and Torcy | 1. Protect the movement forward of assault groups by engaging targets on the far bank. 2. Blow tracks through rivar bank obstacles. 3. Shift fire to the heights above the banks. |
|  | 1500-1550  | Same as above  | Engage bunkers elong the<br>river bank                                      | Combined fire onto narraw crossing sector   |
| Shortly before the assault crossings   | 1350-1600  | Combined fires onto the narrow crossing sector       | Same as above   | <b>Seme as above</b>  |
| Seginning With the<br>assault crossing | after 1600 | Support of infantry and engineers in crossing sector | Engage bunkers nearest the crossing sites?                                  | Support the infantry  |

Annex 8: Time Table for the Meuse River operation on 13 May 1940

| <u>Time</u>                    | Luftwaffe   | Ground Forces   |
|--------------------------------|---|---|
| until 0800                     | 1   | Prepare for river crossings.<br>Artillery prepares fire plan.   |
| 0800-1200                      | Harassing fire on sectors<br>B   and C  .   | Preparations for the crssings under<br>the protection of the Luftwaffe<br>harassing fires. Artillery continues<br>to prepare for its fire support plan. |
| 1200-1600                      | Combined bombing attack on sectors A I , B I , and C i .  | Continuation and completion of all preparations. Artillery ready to execute fire support plan.  |
| 1600-1730                      | Shift heressing fires to sectors A II, B II, C II, and to gun emplacements near Mouzon. Stukes commence attack on sectors B I and C I.  | Surprise river crossing   |
| 1730 to<br>evening<br>neutical |   |   |
| twilight                       | Attack targets of opportunity in the direction of the enemy in sectors A II, B II, and C II.  | Secura bridgeheeds  |
| Night                          | Herass all movement directly<br>north and east of the roads<br>coming from Hirson, Laon, Rethel,<br>Youziers, and Stenay. <sup>10</sup> | Building of bridges, Panzer and artillery crosses the river.  |

The Luftwaffe placed 61 percent of its total air assets at the disposel of Panzer Group von Kleist on 13 May, reflecting the importance placed upon forcing a crossing of the Meuse River. Not all of the aircraft were committed at Sedan, since Reinherdt's XLIst Panzer Corps was also forcing a crossing further north in the Montherme-Mezieres sector. The Luftwaffe deployed its aircraft as follows:

# Panzer Group von Kleist

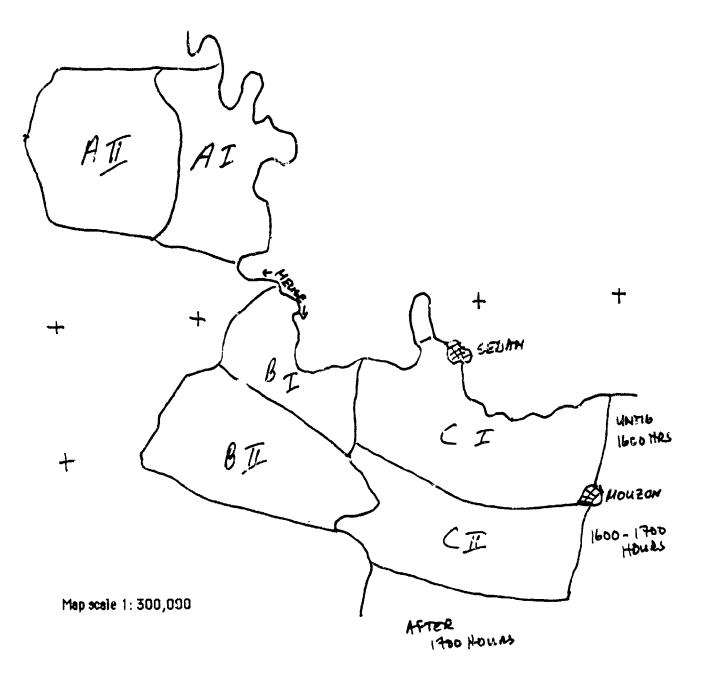
420 ME 109 180 ME 110 270 JU 87 Stuka 900 HE 111 and Do 17 bombers

1,770

| Seden Sector<br>XIXth Penzer Corps |
|------------------------------------|
| 280 ME 109                         |
| 90 ME 110                          |
| 180 JU 87                          |

| Seden Sector<br>KIXth Penzer Corps | Montherms-Meziares Sector XLIst Panzer Corps |
|------------------------------------|--|
| 280 ME 109                         | 140 ME 109                                   |
| 90 ME 110                          | 90 ME 110                                    |
| 180 JU 87                          | 90 JU 87                                     |
| 360 HE 111                         | 540 HE 111 & Do 17                           |
| <del></del><br>910                 | 86011  |
|                                    |  |

# ARTILLERY FIRE PLAN SECTOR SKETCH



# First Panzer Division's Infantry Organization

The following chart shows the organization of 1st Panzer Division's infantry assets, and the parcelling of reinforcing assets from division and corps, for the river crossing.

# Infantry Brigade

# First Infantry Regiment

corps and division main effort

three infantry battalions (reinforced with)

one artillery regiment
one engineer battalion to operate the boats for the crossing
one assault engineer company to neutralize bunkers
one anti tank battalion for direct fire on bunkers
one 88mm Flux battary for direct fire on bunkers

Infantry Regiment "Grussceutschlang" (mot)

adjoining sector (secondary effort)

three infantry battelions (reinforced with)

one 105mm howitzer battalion one engineer company to operate boats for the crossing two assault engineer platoons to neutralize bunkers12

Regimental Organizations for the River Crossing

1st Infantry Regiment (reinforced)

### Assault forces

Against infantry outside bunkers

Against bunkers

three infantry battalions

one assault engineer company (minus one platoon)

### Fire Support

Against ground targets

Against Bunkers

24 105mm/12 150mm howitzers 9 heavy infantry guns (15 cm) 36 3.7 cm anti tank guna 4 89mm Mak guns

# Technical Support

one engineer battalion (reinforced) (with) 12 asseult boots 60 smell preumetic books 45 large pneumatic boats 13

# Infantry Regiment "Gressdeutschland" (reinforced)

# Assault forces

Against infantry outside bunkers

Against bunkers

three infantry bettalions

one assault engineer platoon

# Fire Support

# Against ground targets

# Against Bunkers

12 105mm howitzers

3 heavy infantry guns (15 cm)

6 light infantry guns (7.5 cm)

18 3.7 cm anti tank guna 6 5 cm anti tank guns

6 Armored Assault guns (7.5 cm)

# Tachnical Support

one engineer company (with) 9 assault boats 30 small pneumatic boats 15 large pneumatic boats14

### END NOTES

### APPENDIX K

1Pneumatic boats (Flosssaecke) were similar to the U.S. rubber raft. They had a wooden bottom and came in two sizes. The small pneumatic boat was three meters long, 1.15 meters wide, and had a tube diameter of 35 centimeters. Uninflated weight was 110 pounds. The small raft could carry three to four men, and up to 660 pounds. Using a believe the boat was inflated in five minutes. The large pneumatic boat was 5.5 meters long, 1.85 meters wide, and had a tube diameter of 60 centimeters. Uninflated, it weighed 330 pounds. Total carrying capacity was 1.5 metric tons. Six parsmen (infantry) and one helmsman (engineer) were required to operate the boot. It could carry 12 men and one light machine gun (normally one squad), or one 3.7mm anti tank gun with crew. Each engineer bettalion's TOE allowed for 38 small and 36 large boats. Provided a stream's current was not too swift, five small boots, covered with two parallel rows of boards, could be used to construct a 24 meter long emergency bridge for infantry, motorcycles, and heavy weapons. The large boats were used to construct ferries that carried larger vehicles. The ferries were propelled by assault boats. These pneumatic boats were real handy when confronted with a surprise river crossing, and no engineer bridging companies were available. Assault boats (Sturmboote) were very shallow and constructed of wood. This boat floated empty in 10 centimeters of water. It was propelled by a four cylinder, outboard motor and reached a top. speed of 30 kilometers/hour. The crew consisted of one operator (helmsman, engineer in rear of boat) and one assistant (engineer) in the front. The assault boat had a capacity to transport six men. Buchner, *Das Buch der Deutschen Infanterie,* pp. 63-65.

<sup>2</sup>Dech, *Panzer durchbrechen eine Armeestellung,* Nr. 2, p. 70; and Generalkommando XIX. A. K. Abteilung ia, K. Gf. St. Belleveux 13, 5, 40., 8,15 Uhr. Betr: Korpsbefehl fuer den Angriff ueber die Mess am 13, 5, 40.

3Wilhelm Berlin was born in Koeln on 28 April 1889. He entered the army in 1909 and joined the 14th Artillery Regiment in 1910. After World War I, Berlin remained in the Reichsheer. In 1938, he commanded the 33rd Artillery Regiment, and when the war broke out Berlin became the Commander of Artillery Command 101 (ARXO 101). In his capacity as ARKO 101, Berlin planned the artillery support plan for XIXth Panzer Corps. From October 1940 until April 1943, Berlin commanded the Artillery School at Justerborg. Subsequent duties included: Commander, 58th Infantry Division in May 1943, Commander, 227th Infantry Division in June 1943, Commander, 26th Corps in June 1944, Chief Artillery Officer at OKH from November 1944 to February 1945, and Commander, 101 Corps from February 1945 until the end of the war. Berlin's highest rank was General of Artillery. He retired in Koeln after the war. Keilig, op cit., p. 24.

4Anlage 5 zum Korpsbefehl fuer den 13. 5. 40. Besondere Anordnungen fuer den Maasuebergang am 13. 5. 40 fuer die Artillerie.

5Anlage 3 fuer den Korpsbefehl fuer den 13. 5. 40. Besondere Anordnungen fuer den Maasuebergang (*Pionierwesen*) am 13. 5. 40.

6The following weapons were employed: 48 medium mortars, 48 light machine guns, 18 light

infantry guns (7.5 cm), 9 heavy infantry guns (15 cm). The heavy weapons of the infantry battalions are supporting the crossing. Rifle companies are left with only two light machine guns and three 50 mm mortars. Dach, op cit., p. 74.

7The following weapons were employed: 60–3.7 cm anti-tank guns, 6–5 cm anti-tank guns, 6 assault guns (7.5 cm), 4 Flak guns (88mm). Dach, op cit., p. 74.

<sup>9</sup>The following weapons were employed: 36 howitzers (105mm/150mm) of 1st Penzer Divisions artillery; the fires of the reinforced corps assets: 40 howitzers (105mm), 24 howitzers (150mm), 8 field guns (100mm), 8 210mm mortars, and 18 rocket launchers (210mm/108 tubes). Anlage 5 zum Korpsbefehl füer den 13, 5, 40. Besondere Anordnungen füer den Massuebergang am 13, 5, 40 füer die Artillerie.

9Dach, op cit., p. 74

10Anlage 1 zum Korpsbefehl Nr. 3. Zeittafel fuer den Angriff ueber die Mass am 13, 5, 40,

11 Dach, *op cit.,* p. 75.

12Dach, op cit., p. 72.

131bid., p. 73.

14lbid.

APPENDIX L

### Appendix L

### ORDER OF BATTLE

# Panzer Group von Kleist's order of Battle on 10 May 1940:

Panzer Group von Kleist 134,000 men. 42,000 vehicles, and 1, 250 tanks. General Headquarters Troops (GHT): General Headquarters Regimental Signal Staff 425th Signal Battalion (corps-construction) 422nd Signal Battalion Nebelwerfer Regiment (rocket projectile) 2nd Nebelwerfer Battelion 511th Regiment Engineer Headquarters 41st Engineer Battalion 85th Engineer Battalion with one type B bridging company 1st Company/407th Engineer Battalion (type 8 bridge) 49th Artillery Regiment (staff only) 2nd Bettalion (heavy)/69th Artillery Regiment (mot) (100mm Field Gun) 3rd Battalian (heavy) /1 11th Artillery Regiment (mot) (100mm Field Gun) 4th Battalion (heavy)/259th Artillery Battalion (mot) (150mm Howitzer) 29th Observation Battalion 521st Anti Tank Battalion General Headquarters Regimental Supply Staff 422nd Supply Battalion (corps) Luftwaffa Support Group

# XIXth Panzer Corps

### 1st Panzer Division

1st Panzer Brigade

1st Infantry Brigade (mach)

73rd Artillery Regiment (mot)1

Luftwaffe Signal Battalion (mot)

1st Motorcycle Reconnaissance Battalion

37th Engineer Bettalion

2nd Company/406 Engineer Battalion (type B bridge)

3rd Flight/31st Air Reconneissence Squadron (Flak)

37th Anti Tank Battalion

2nd Flight/23rd Air Reconnaissance Squadron (Army)

93rd Flak Battalion (Armu)

4th Armored Reconnaissance Battalion

37th Signal Battalion (divisional)

81st Supply Battalion (divisional)

1st Battalion/18th Flak Regiment (Luftwaffe) (GHT)

# 2nd Penzer Division

2nd Panzer Brigade

2nd Infantry Brigade (mech)

74th Artillery Regiment (mot) 2nd Motorcucie Reconneissance Battalion 38th Engineer Battalion 1st Company/406th Engineer Battalion (type 8 bridge) 38th Anti Tank Battalion (Army) 92nd Flak Battalion (Army-light) 5th Armored Reconnaissance Battalion 38th Signal Battalion (divisional) 82nd Supply Battalion (divisional) 2nd Bettailon/38th Flak Regiment (Luftwaffs) (GHT) 1st Flight/71st Air Reconneissence Squedron (Army)

# 10th Panzer Division

4th Penzer Brigade 10th Infantry Brigade (mech) 6th Motorcycle Reconneissance Company/69th Infantry Regiment (mech) 90th Artilleru Regiment (mot) 49th Engineer Battalion 1st Company/430th Engineer Battalion (type B bridge) 90th Anti Tank Battalion (Army) 71st Flak Battalion (Army-light) 1st Armored Reconnaissance Battalion/8th Regiment 90th Signal Battalion (divisional) 90th Supply Battalion (divisional) 1st Battalion/36th Flak Regiment (Luftwaffe) (GHT) 3rd Flight/41st Air Reconnaissance Squadron (Army)

### Under Corps control.

Infantry Regiment Grossdeutschland (mot) 1st through 4th Infantry Battalions 43rd Assault Engineer Battalion (General Headquarters Troops) 101st Artillery Command Staff (corps artillery commander) 2nd Battalion (heavy)/45th Artillery Regiment (150mm Howitzer) 516th Heavy Artillery Battalian (210mm Mortars) (GHT) 1st Observation Battalion 102nd Flak Regiment (-) (Luftwaffe) (GHT) 91st Flak Battalion (light) 1st Battalion/3rd Flak Regiment (medium) 1st Battalion/8th Flak Regiment (heavy) 505th Engineer Battailon 70th Engineer Battalion one Bridge Construction Company 419th Supply Battalion (divisional) 80th Signal Battalion (divisional) Reconnaissance Demonstration Battalion

4th Flight/31st Air Reconneissance Squedron (Army)

# XLI Penzer Corps

# 6th Panzer Division

11th Panzer Regiment

4th Infantry Regiment (mech)

76th Artillery Regiment (mot)2

6th Motorcycle Reconnaissance Battalion

57th Engineer Battalion

41st Anti Tenk Bettalion

76th Flak Bettelion (Army)

6th Armored Reconneissance Battelion

82nd Signal Battalion (divisional)

57th Supply Battalion (divisional)

3rd Flight/12th Air Reconnaissance Squadron (Army)

# 8th Penzer Division

10th Penzer Regiment

9th Infantry Regiment (mech)

80th Artillery Regiment (mot)3

2nd Motorcycle Reconnaissance Battalion/9th Infantry Regiment

59th Engineer Battalion

2nd Armored Reconnaissance Battalion/8th Cavalry Regiment

43rd Anti Tank Battalion

84th Flak Battalion (Army)

84th Signal Battalion (divisional)

69th Supply Battalion (divisional)

3rd Flight/41st Air Reconneissance Squadron (Army)

# 2nd Infantry Division (mot)

25th Infantry Regiment (mot)

5th Infantry Regiment (mot)

2nd Artillery Regiment (mot)4

2nd Armored Reconnaissance Battalion

2nd Engineer Battalion

32nd Signal Battalion (divisional)

2nd Anti Tank Battalion

### Under corps control:

1st Battalion/3rd Flak Regiment (GHT) (Luftwaffe)

441st Signal Battalion (corps)

441st Supply Battalion (corps)

### XIYth Motorized Corps:

# 13th Infantry Division (mot)

93rd Infantry Regiment (mot)

66th Infantry Regiment (mot)

13th Artillery Regiment (mot)

13th Anti Tenk Bettalion

4th Engineer Battalion 13th Signal Battalion (divisional) 13th Armored Reconnaissance Battalion 13th Supply Battalion (divisional)

# 29th Infantry Division (mot)

71st Infantry Regiment (mot)
15th Infantry regiment (mot)
29th Artillery Regiment (mot)
29th Anti Tank Battalion
29th Armored Reconneissance Battalion
29th Signal Battalion (divisional)
29th Engineer Battalion
29th Supply Battalion (divisional)

# Under corps control:

60th Engineer Battalion 60th Signal Battalion (corps) 41 4th Supply Battalion (corps)5

# First Flak Corps

# 101st Flak Regiment

1st Battalion/12th Flak Regiment 1st Battalion/22nd Flak Regiment 1st Battalion/51st Flak Regiment 85th light Flak Battalion

# 102nd Flak Regiment

1st Battalion/18th Flak Regiment 1st Battalion/36th Flak Regiment 2nd Battalion/38th Flak Regiment 91st light Flak Battalion

### 104th Flak Regiment

1st battalion/8th Flak Regiment 1st Battalion/11th Flak Regiment 2nd Battalion/11th Flak Regiment 75th light Flak Regiment

3rd Battalion (heavy)/General Goering Flak Regiment 3rd Battalion/9th Flak Regiment

101st Air Signal Regiment 1st and 2nd Battalions

1st Corps Supply Elament6

### END NOTES

### APPENDIX L

<sup>1</sup>The normal artillery regiment of a Panzer division consisted of two battalions of three batteries. The 1st, 2nd, and 10th Panzer Divisions artillery regiments were reinforced by General Headquarters Troops heavy artillery battalions. In 2nd and 10th Panzer Divisions the heavy battalion consisted of three batteries (two batteries of heavy field howitzer 150mm, and one battery of 100mm field guns. The 1st Panzer Division's heavy artillery battalion consisted of three batteries of 150mm howitzers. A battery normally consisted of four artillery pieces. Mueller-Hillebrandt, Das Heer, p. 143.

2The heavy artillery battalion was a pure 150mm battalion (also General Headquarters Troops). Mueller-Hillebrandt, op cit., p. 125.

31bid.

4The artillery regiment of a motorized infantry division consisted of two light battalions of 105mm howitzers and one heavy battalion of 150mm howitzers. Mueller-Hillebrandt, op cit, p. 139.

<sup>5</sup>Gliederung der Truppen der Gruppe v. Kleist, stand vom 15. 3. 40; XIX. A. K. Abt. Ia., den 28. 3. 40., Studie fuer den Korpsbefehl Nr. 1 fuer den Fall "Gelb".

6Georg Tassin, Verbaende und Truppen der Deutschen Wehrmacht und Waffen-55 im Zweiten Weltkrieg, pp. 15-16.

APPENDIX M

### APPENDIX M

### **GERMAN MILITARY DOCUMENTS**

The narrative is largely based on documentary evidence from the Nellonal Archives in Washington D. C. All German Army documents originated from National Archives microfilmed records. The documents in this thesis are cited based on German. Army document filing procedures. Documents are cited according to their office of origin, registry number, title (when applicable), and signature. Document headers are observated, beginning with the office of origin, descending in hierarchical order. An example as used in Chapter Three is as follows:

Der Oberbefehlshaber des Heeres, Gen St.d. H/Ausb. (Ia), Nr. 400/39 g. 13.10.39., Betr. "Ausbildung des Feldimences".

This document originated with the Commander in Chief of the Army, General Staff, Training Section of the Operations Branch, the 400th document issued in 1939, classified secret, dated 13 October 1939, and pertained to the training of the Field Army.

APPENDIX N

### APPENDIX N

### TRANSLATED QUOTES

### CHAPTER ONE:

Here lie the dice of this incredible gamble. Who deres to throw them.

### **CHAPTER TWO:**

Good looking operations orders are immaterial. What counts are clearly stated intentions which can be executed with all of one's heart and determination.

### CHAPTER THREE:

It is imperative to rapidly break through to the enemy's rear. To accomplish this, we must disregard left and right flank security, and employ every available means to quickly cross or go around his barriers and obstacles. Surprise him continuously.

### CHAPTER FOUR:

After the breakthrough it is of decisive importance that we advance as far as the fuel will allow. The advance must continue day and night without a possibility of rest. Flank threats must be disregarded and engines utilized their maximum capabilities. The elimination of flank attacks are the responsibilities of all following corps.

# CHAPTER SIX:

Accomplish much, remain in the background, and be more than you seem, must be the motto of every General Staff officer.

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T311/249, War records of Army Group A

T311/250, War records of Army Group A

T311/251, War records of Army Group A

T311/252, War records of Army Group A

T314/613, War records of XIXth Panzer Corps

T314/614, War records of XIXth Panzer Corps

T314/615; War records of XIXth Panzer Corps

T314/666, War records of XXIInd Army Corps (Panzer group von Kleist)

T314/667, War records of XXIInd Army Corps (Panzer Group von Kleist)

T314/668, War records of XXIInd Army Corps (Panzer Group von Kleist)

T314/669, War records of XXIInd Army Corps (Panzer group von Kleist)

T315/13. War records of First Panzer Division

T315/14, War records of First Panzer Division

T315/89, War records of Second Parizer Division

T315/92, War records of Second Panzer Division

T315/559, War records of Tenth Panzer Division

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# DEPARTMENT OF THE ARMY



U.S. ARMY COMMAND AND GENERAL STAFF COLLEGE 1 REYNOLDS AVENUE, BUILDING 111 FORT LEAVENWORTH, KANSAS 66027-1352

ATZL-SWY

2 May 2001

MEMORANDUM FOR ATTN: Larry Downing, DTIC-OCQ, Defense Technical Information Center, 8725 John J. Kingman Road, Suite 0944, Fort Belvoir, VA 22060-6218

SUBJECT: Request for Distribution Change

1. The following documents should be changed from distribution B to distribution A. The limitations have been removed and they are now publicly available.

| THESIS   | ACCESSION<br>NO |
|--|-----------------|
| Arracourt—September 1944   | ADB067783       |
| Criminal Investigative Activities, World War II and Vietnam, Battlefield Implications          | ADB125460       |
| Does the US Army Need a Full-Time Operations Other Than War Unit?                              | ADB225714       |
| F-16 Low Altitude Navigation and Targeting Infrared System for Night and the Night Close Air S | ADB135971       |
| Finite Element Analysis of Laser-Induced Damage to Mechanically Loaded Laminated Compo         | ADB157706       |
| Role of Army Intelligence in the Domestic Drug War   | ADB149106       |
| Should Members of the Military be Concerned about Television Coverage of Wartime Operation     | ADB135563       |
| Teaching Mission Orders in Officer Advance Course Instruction: Reality or Myth?                | ADB135628       |
| The Cut of the Scythe  | ADB125547       |
| The Light Infantry Division, Regionally Focused for Low Intensity Conflict                     | ADB150050       |
| The Role of the Corps Air Defense Artillery Brigade  | ADB148423       |
| The Strategic Rationale for Special Operations Forces Employment                               | ADB157746       |

2. Thanks. Please let me know when they are done. My e-mail address is burgesse@leavenworth.army.mil, and my phone number is (913) 758-3171.

EDWIN B. BURGESS

Chief, Public Services

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